

THE  
ARCHITECT  
& BUILDING NEWS

---

***Building Exhibition Guide***

---

- HOUSE AT OTHAM, MAIDSTONE
- L.T.E. GARAGE, STOCKWELL

NOVEMBER 12, 1953

VOL. 204

NO. 20

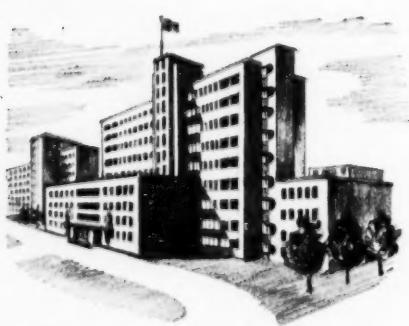
ONE SHILLING WEEKLY

# The BRITANNIC *Floor Spring* BRITANNIC



No 444

*Makers of Floor  
Springs in 10 Reigns*



---

**WILLIAM NEWMAN & SONS Ltd.**  
HOSPITAL STREET, BIRMINGHAM 19. *Established over 200 years*

---

**"As I look at that beautiful picture of my work,**

**I'm proud. I heaves a sigh of satisfaction, my eyes fill up and**

**I sez to myself, "Elmer don't have to worry, he's a boy that's got hisself**

**a privy, a m-i-g-h-t-y , m-i-g-h-t-y , p-r-e-t-t-y p-r-i-v-y."**

*Lemuel Putt \**



THE new Williams & Williams Roften Privies† would have delighted the heart of old Lemuel Putt. The new Roften are pretty — you can have them in any colour; and they are mighty because they will last a very long time. There is a myriad of reasons why you should specify Roften—here are just a few :—

1. Roften toilet compartments are cheaper than brick and tiles : prefabrication makes them easy and quick to erect.
2. They can be grouped in any number.
3. They are made of high quality sheet steel which is rustproof, fire resistant and won't harbour germs.
4. The doors are double skinned to prevent warping.
5. They will stand up to climatic conditions in any part of the world.
6. The clean straight lines are in keeping with modern trends in design.
7. Roften are supplied in finished colours to specification.

If you are putting toilet compartments into schools or hospitals, factories or offices we should be glad to tell you about the new Roften lavatory units. Please write or telephone.

† *Lavatories or even toilet compartments if you wish Sir.*

\* *The Specialist by Charles Sale : Putnam, 42 Great Russell Street, London, W.C.2.*

**The Pressed Metal Division of**

**WILLIAMS & WILLIAMS Limited**

**ROFTEN WORKS HOOTON CHESHIRE**

London Office: Victoria House, Southampton Row, W.C.1. Telephone: HOLborn 9081-6

**the  
building  
exhibition  
silver 25<sup>th</sup> jubilee**

*Patron: His Royal Highness the Duke of Edinburgh.*

*President: Howard Robertson, M.C., A.R.A., S.A.D.G.*

*President of The Royal Institute of British Architects.*

**Nov. 18th–Dec. 2nd, 1953.  
Olympia, London.**

*Exhibits include :—*

Air Compressors.  
Air Conditioning.  
Asphalte.  
Bending Machinery.  
Bricks—Tiles.  
Brick & Tile Making Machinery.  
Canteen & Kitchen Equipment.  
Clay, Sand & Lime.  
Concrete & Cement Products.  
Concrete Plant.  
Contractors Plant.  
Cooking & Heating Equipment.  
Cranes—Hoists.  
Diesel Engines.  
Earth Moving Equipment.  
Electrical Equipment.  
Excavators.

*Fireplaces.*

Fire Prevention.  
Floors & Flooring.  
Glass, decorated, Pavement Lights, etc.  
Hot water services.  
Insulation.  
Joinery.  
Ladders, Trucks & Barrows.  
Linoleum.  
Locks, Safes, Door Furniture & Gear.  
Lighting.  
Marble.  
Metal Windows, Doors & Partitions.  
Metalwork.  
Mechanised Plant.  
Paints & Painting Equipment.  
Plaster & Plasterboards.

*Plastics.*

Prefabricated Structures.  
Pumps.  
Refrigeration.  
Roofing Materials.  
Sanitary Ware.  
Scaffolding.  
Steel.  
Stone.  
Storage Units.  
Timber.  
Tools—Hand & Powered.  
Tower Cranes.  
Tractors.  
Vibrators.  
Wallboards.  
Wallpapers.  
Water supply.  
Woodworking Machinery.  
Wood Preservatives.

**The following Government Departments exhibit :—**

**The Ministry of Works.**

**The Ministry of Housing and Local Government.**

**The Department of Scientific and Industrial Research.**

**Forest Products Research.**

**The Building Research Station.**

**Her Majesty's Stationery Office.**

Features of special interest include prefabricated houses, schools, pre-stressed concrete, and many other modern developments.

**THE BUILDING TRADES EXHIBITION LTD., 4, VERNON PLACE,  
HOLBORN 8146/8 LONDON, W.C.1.**

# KINNEAR PATENT STEEL ROLLING SHUTTERS

Registered  
KINNEAR  
Trade Mark

## AUCKLAND HARBOUR BOARD NEW ZEALAND

From a letter written in New Zealand under date of 8th February, 1952, we quote the following regarding 85 Kinnear Shutters supplied by us in 1912 and 1913, forty years ago :—

We have inspected with the Works Manager of the Auckland Harbour Board, the Doors supplied by you in 1913, and we have to report that they are generally still in excellent condition. The main wear has been with the Slats individually hard usage, and the



Sole Manufacturers:

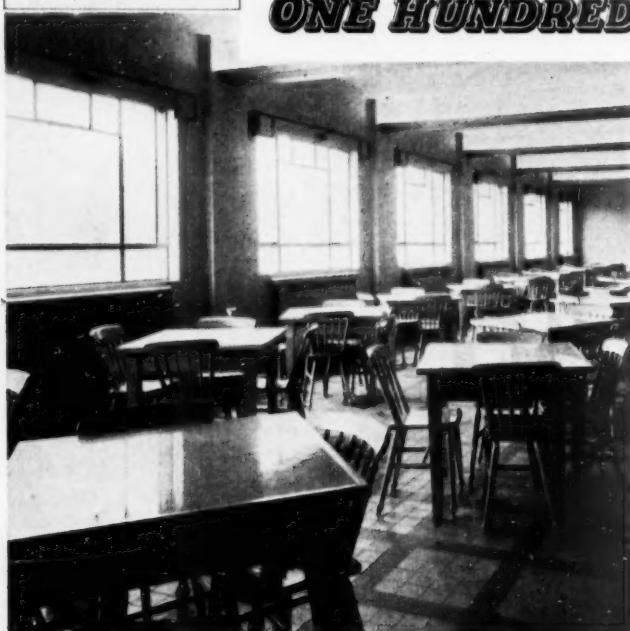
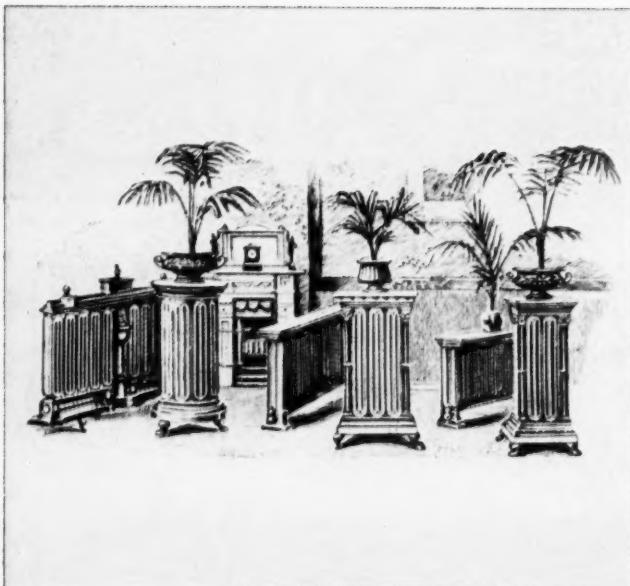
**ARTHUR L. GIBSON & CO LTD**

Branch Offices:-Birmingham : 136, Yarningale Road Highbury 2804

Manchester : 79, Piccadilly Central 1008

Glasgow : Lister Road, Hillington Halfway 2928

Head Office:  
Radnor Works - Twickenham.  
Telegrams: "Shannies Twickenham"  
Telephone: Popesgrov 2276



## **ONE HUNDRED YEARS OF PROGRESS**

*Serving Industry  
and the Home*

We proudly announce that this year marks the Centenary of the establishment of W. G. Cannon & Sons Ltd., and as we look back on a hundred years of service to all those concerned with Heating and Ventilation, we also look forward to 1954 when we shall be transferring our administrative organisation to larger offices in the Central London area.

*Consult*

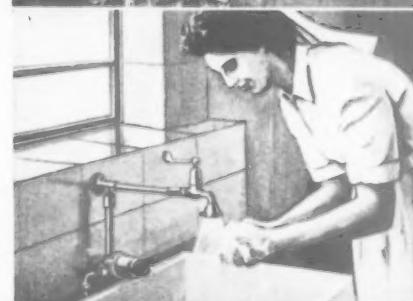
**CANNONS**



**FOR HEATING, VENTILATION, AIR  
CONDITIONING & ENGINEERING  
SERVICES.**

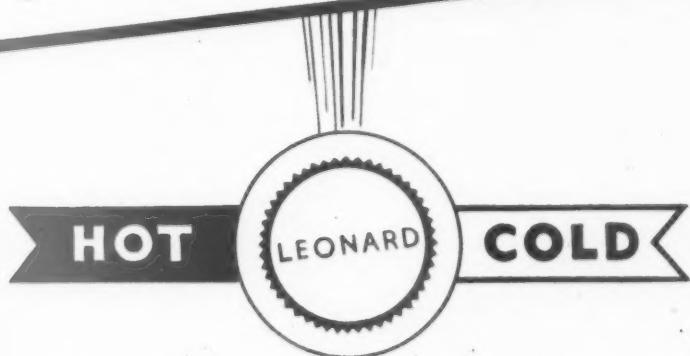
Telephone: CROYDON 4535-6799

**145/147 NORTH END  
CROYDON · SURREY**



## Leonard THERMOSTATIC VALVES

for AUTOMATIC mixing  
of hot and cold water



The Leonard Thermostatic Mixing Valve automatically mixes hot and cold water to give warm water at the right temperature for use. The thermostat keeps the temperature of the warm water steady, preventing those sudden changes from hot to cold and back again, which are always uncomfortable and often dangerous.

**Fuel cannot be wasted by using water that is too hot.**  
Leonard Thermostatic Mixing Valves are specified by leading architects, engineers, Government and municipal authorities.

Please write for pamphlet No. I/A.

WALKER CROSWELLER & CO., LTD.  
Whaddon Works, Cheltenham Glos.

# Who is behindhand?



## *Are you sure YOU aren't?*

How long is it since you made a thorough search on your premises for scrap iron and steel? Remember that wherever machines are used there will be scrap.

You can make bricks without straw — but not without steel. Practically every building material, from cement to wooden beams, is made with the help of steel — iron and steel machines. And the steel-makers cannot make enough new steel without scrap. Is your scrap going to help?

Obsolete machines and equipment, redundant buildings, in fact everything containing iron and steel which has outlived its effective purpose — all this is scrap and should be sent off to your local scrap merchant as soon as possible.

Search your works for it and turn it in. You will be doing yourselves a great service.

### VISIT STAND NO. 508

IN THE NATIONAL HALL GALLERY

at the  
Building Trades Exhibition,  
Olympia, Nov. 18-Dec. 2 —  
and see what STEEL is  
doing to help the national  
effort.

Issued for the STEEL SCRAP DRIVE by the British Iron and Steel Federation and the National Federation of Scrap Iron, Steel and Metal Merchants.

## GOOD FACTORY FLOORS

are vital to  
industrial efficiency

## SOME OF THE BEST

are formed with

*Stelcon*

Both of these Stelcon Products provide permanent, level, dustless floors able to withstand the toughest of conditions and make efficient handling of heavy industrial traffic easy.

Units are approx. 12" x 12" and are excellent for repair work as well as new work.  
Full details sent on request.

- ★ STEEL CLAD FLAGS
- ★ ANCHOR STEEL PLATES

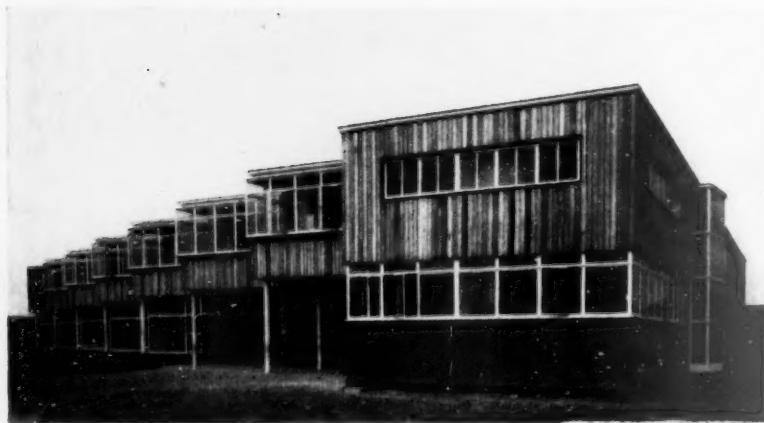
**"best where conditions are worst"**

STELCON (INDUSTRIAL FLOORS) LTD . CLIFFORD'S INN . LONDON . E.C.  
TELEPHONE: HOLBORN 2916

3 ST.JAMES'S SQ. S.W.1  TRAFALGAR 7833

THE  
**DEMOLITION &  
CONSTRUCTION**  
COMPANY LIMITED

*Civil Engineering, Building and  
Public Works Contractors*



Two Storey Primary School  
for the  
Middlesex County Council

Modern Flats  
erected for the  
St. Marylebone Borough Council

FACTORIES AND BUILDINGS  
FOR INDUSTRY AND  
MUNICIPAL AND  
GOVERNMENT AUTHORITIES



HOUSES · SCHOOLS



FLATS · HOSPITALS



Architect : Ralph Tubbs, O.B.E., F.R.I.B.A.

General Contractors : Tersons Ltd.  
Painting Contractors : Decorative Painting Contractors Ltd.

Illustrated above is the Y.M.C.A. Indian Students' Union and Hostel at Fitzroy Square, London, W.I. On this important contract Cementone No. 7 Primer and Exterior Flat Finish was selected for exterior decoration.

In the Cementone range are products universally suitable for interior or exterior decoration in flat, gloss or stone texture and special products for colouring, hardening and waterproofing cement and concrete.

The Cementone Handbook gives brief particulars, specifications and costs per yard of all the Cementone Products. A copy of this Handbook, together with colour cards of the Cementone Decorative Products, will gladly be sent to any Architect, Surveyor or Contractor.

# Cementone again!

JOSEPH FREEMAN SONS & CO. LTD., CEMENTONE WORKS, LONDON, S.W.18

MANUFACTURERS OF COLOURS, HARDENERS,

Telephone : VANDyke 2432 (5 lines)



WATERPROOFERS AND DECORATIVE FINISHES

Telegraphic Address : CEMENTONE, WESPHONE, LONDON

THIS IS THE  
**HIGHLIGHT**  
OF THE BUILDING EXHIBITION

Visit the Celotex stand and see for yourself—the *Highlight* finish—greatest time and money saving development in building boards since the beginning of the century.

This factory-applied smooth white finish is an ideal undercoating for all types of paint or distemper—no priming or sizing is required.

Celotex cane fibre building boards with the *Highlight* finish give you insulation *plus* savings in decorating costs of up to 1s. 6d. per square yard. In addition to the *Highlight* finish, the full range of Celotex British made products will be shown including the new "Fire Resistant Insulating Board".

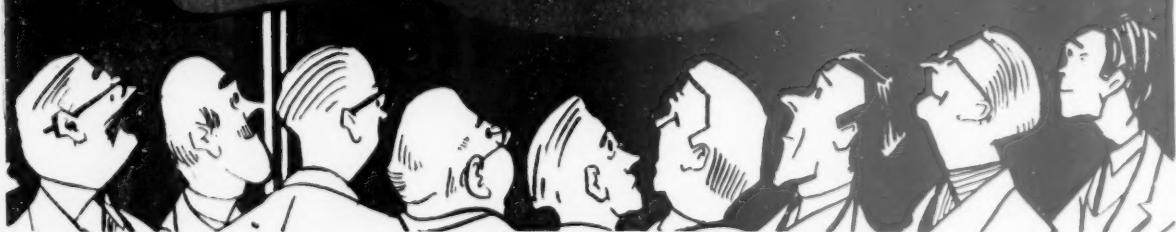
We shall be pleased to welcome you on

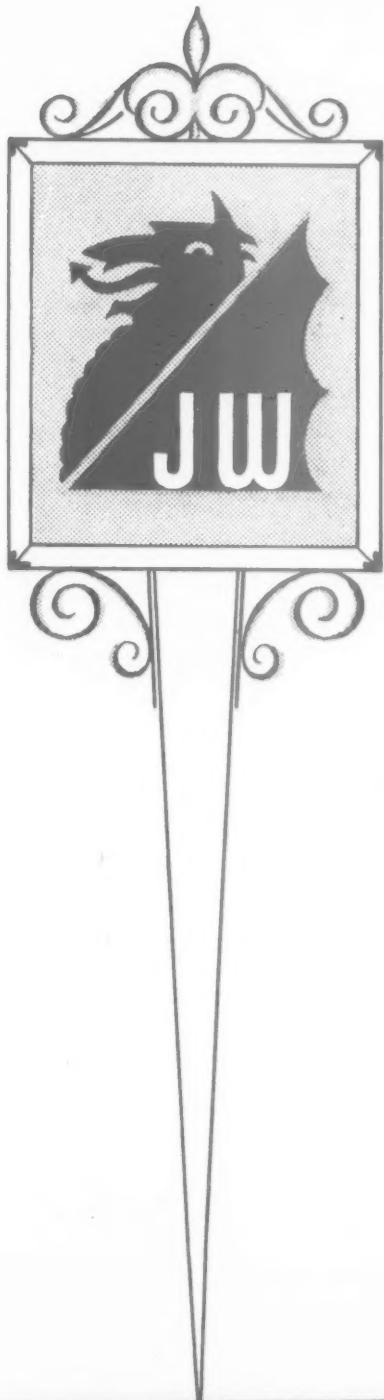
**STAND 30 ROW B**

If you are unable to visit Olympia this year, write for samples to

**CELOTEX LIMITED**

NORTH CIRCULAR ROAD, STONEBRIDGE PARK, LONDON,  
N.W.10. Telephone: ELGAR 5717.





# At The Sign of the Red Dragon

**STAND No. 226  
ROW 'K'**

**Within the Building Exhibition  
At Olympia in London**

Gentlemen engaged in the design and erection of residences and other buildings will find an interesting display and be able to gather information about the Metal Windows and Metal Partitions manufactured by us under our trade names—Jonwindows and Lita Partitions.

**'JONWINDOWS'  
'LITA' PARTITIONS**

**JOHN WILLIAMS & SONS (CARDIFF) LTD**  
TELEPHONE CARDIFF 22501 EAST MOORS ROAD • CARDIFF TELEGRAMS METAL CARDIFF

LONDON OFFICE: BANK CHAMBERS, FINSBURY PARK, N.4. Phone: ARCHWAY 2294. Grams: DISSOLVING, LONDON

We who invented it, continue to make

---

the world's finest building board.

---

So, naturally, we are much more concerned

---

than anybody else could possibly be to keep

---

Britain where we put her—in the lead

**SUNDEALA**

HARDBOARD

MEDIUM HARDBOARD

INSULATION BOARD

---

*First in 1898—and foremost ever since*

---

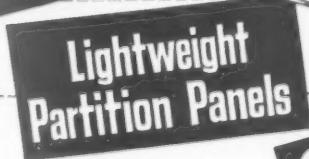
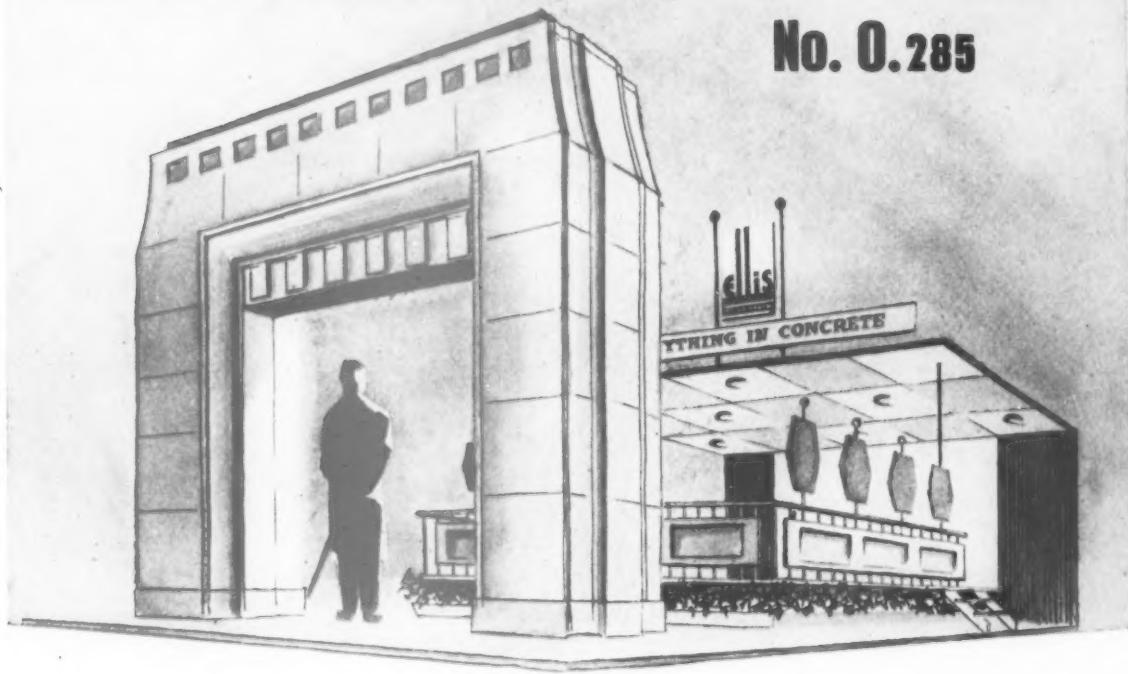
**SUNDEALA BOARD CO. LTD**

Head Office: Aldwych House, London, W.C.2 Tel: CHAncery 8159 Works: Sunbury-on-Thames, Middlesex  
Glasgow: Baltic Chambers, 50 Wellington Street, C.2 Newcastle: Northumbria House, Portland Terrace, 2

---

THE BUILDING EXHIBITION - OLYMPIA 18th NOV. - 2nd DEC. 1953

## We shall be pleased to see you at Stand No. O.285



JOHN ELLIS & SONS LIMITED, 21 NEW WALK, LEICESTER. Tel: LEICESTER 56682. Grams: ELLIS LEICESTER





... if you are interested in up-to-date methods of increasing production and decreasing maintenance, it will be worth your while to see Heywoods display of the latest techniques in Lead and Aluminium Roof Glazing, Vertical and Double Glazing, Open Lights, and Heywoods Patent System of Thermal Insulation at the

**BUILDING exhibition OLYMPIA**

November 18th to December 2nd inclusive.

A limited number of free invitations are available from :  
W. H. HEYWOOD & CO. LTD., HUDDERSFIELD.

Grand Hall Gallery,

STAND No. 484-486



## Available EX-STOCK

The Brookhirst 'Simple' Range of straight-on starters includes not only a wide choice of combinations but also variety within each combination. These extremely adaptable designs have provision for many optional features not normally available in standard EX-STOCK starters. In selecting from the 'Simple' Range, therefore, you are not likely to limit your choice to any extent and all normal requirements can be satisfied on a most economical basis. Write for Catalogue 31D and current Stock List.

**BROOKHIRST**  
**'SIMPLE' RANGE**  
**BROOKHIRST SWITCHGEAR LIMITED, CHESTER**



## There are many different types

of timber joints, but in bolted timber structures such as roof trusses, jetties, grandstands, timber houses, towers, etc., where **efficiency and economy** are of paramount importance — it is most essential to use . . . .

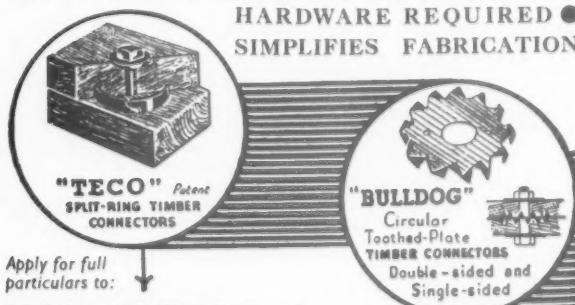
**•TECO•** (Patent No. 593945)  
DOUBLE BEVELLED SPLIT-RING  
AND

**•BULLDOG•**  
(Registered Design No. 838743)  
CIRCULAR TOOTHED-PLATE  
TIMBER CONNECTORS

The inclusion of these connectors in timber structures strengthens the joints by spreading the load over a large area of the timber members, increasing the load capacity, permitting reductions in timber dimensions and the amount of hardware, at the same time giving extra strength and stability to the finished structure.

**•TECO•** double bevelled split-rings and  
**•BULLDOG•** circular toothed-plate  
TIMBER CONNECTORS make  
possible the designing of timber structures on an engineering  
basis for greater spans and loads than ever before.

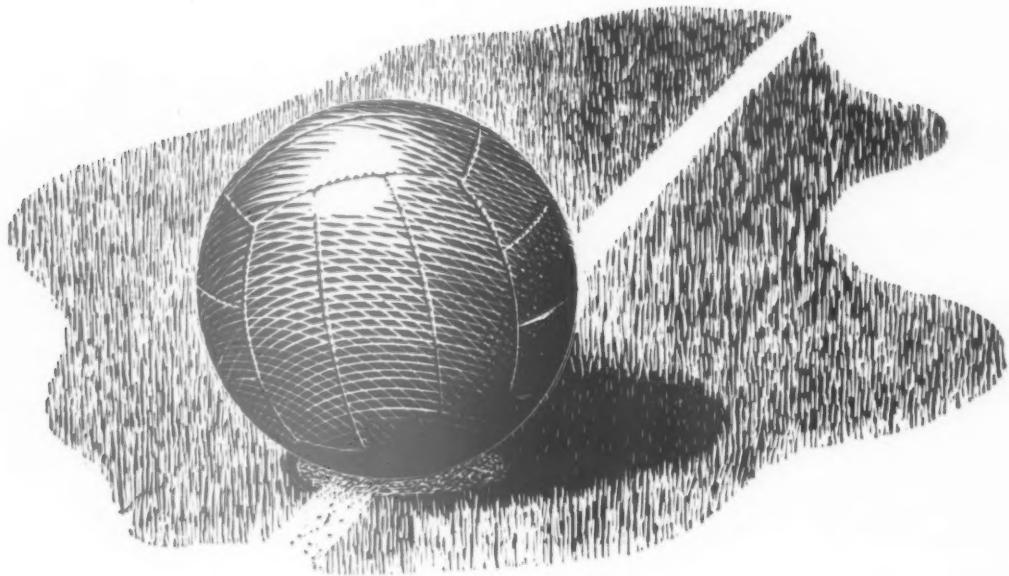
EASY TO INSTAL • LESS TIMBER AND  
HARDWARE REQUIRED •  
SIMPLIFIES FABRICATION



Apply for full  
particulars to:

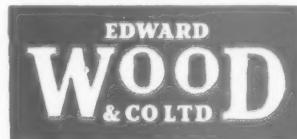
**MACANDREWS &  
FORBES LTD.**

2 CAXTON STREET,  
LONDON, S.W.1. Tel.: ABBey 4451/3



# STEELWORK for SPORT

Amphitheatres of a bygone civilisation are with us yet, but the supporters of to-day's teams are in turn supported by Steel—in the case of Manchester United's ground with Steelwork by



**CONSTRUCTIONAL  
ENGINEERS**

Registered Office & Works: **MANCHESTER 17**  
Telephone: TRAfford Park 2341 (10 lines)  
London Office: 68 Victoria Street, S.W. I Tel.: Victoria 1331/2  
Technical Offices: BIRMINGHAM and LOUGHBOROUGH



# "THE DEVON FIRE"

CANDY & CO. LTD.

HEATHFIELD, DEVON

IN ADDITION TO A RANGE OF BEAUTIFUL FIREPLACES  
DESIGNED BY EMINENT DESIGNERS,  
DEVON SURROUNDS FOR HOUSING-SCHEMES  
ARE COMPETITIVE IN PRICE AND ARE NOT ONLY  
REOWNED FOR THEIR QUALITY, BUT ALSO  
THE FIRE OPENINGS CONTAIN THE WELL-KNOWN  
**LOCK-BACK**  
WHICH GUARANTEES COMPLETE FREEDOM FROM  
TROUBLE, RESULTING IN  
MAINTENANCE COSTS BEING CUT TO A MINIMUM.  
OBtainable through  
LEADING BUILDERS MERCHANTS AND IRONMONGERS

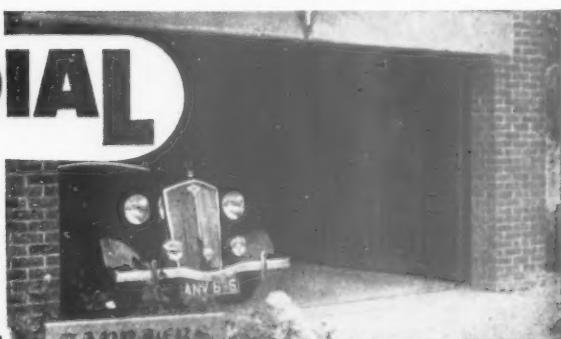


## ELLARD SLIDING DOOR GEAR

ELLARD "Estate" Sliding Door Gear has again been specified for a large housing estate: the People's Houses, Canterbury, Kent. "Estate" Door Gear gives full economy in use of space. For easy access and efficient action, garage doors should be fitted with ELLARD "Radial" Sliding Door Gear. The illustration below shows a typical domestic garage with sliding doors running on ELLARD "Radial" Door Gear. See our exhibits at the Building Centres, 26 Store Street, London, W.C.1, and 425-427 Sauchiehall Street, Glasgow, C.2.

BUILDING EXHIBITION  
STAND 498  
GRAND HALL GALLERY

## RADIAL



ELLARD Sliding Door Gear has been specified for flats and housing schemes by: London County Council; Canterbury and Peterborough Corporations; Eston, Mexborough, Ruhden, Sawbridgeworth and Wellingborough U.D.C.s; Easington and Sedgefield R.D.C.s; and for British Railways Housing Estate, Southall; Coronation Bungalows, South Shields; Kytes Settlement Estate, Watford; Newton Aycliffe and Stevenage New Towns.

CLARKE ELLARD ENGINEERING CO. LTD.  
Works Road, Letchworth, Herts.

Tel.: 613/4

B.M.J.



## it's the look that gets 'em!

The world has grown considerably older since one of its inhabitants first realised that the way to stimulate interest is to look interesting. She (a logical choice we feel) must have caused a prehistoric riot! Then, somewhere along the stony path of evolution, commerce borrowed the idea.

Today, there's no better way of ensuring success for your product than to endow it with a Cellon finish — for no matter how fierce the competition, a Cellon finish provides the look that outshines and outsells 'em all.

Besides their superb Cerrux Decorative Finishes, Cellon Limited are renowned for Cerrux Coach Finishes, Cerric Wood Finishes and Cellon Industrial Finishes. Whatever comes off your production line there is a Cellon finish ready and waiting to provide that essential eye appeal together with lasting protection.



**CERRUX DECORATIVE PAINTS**

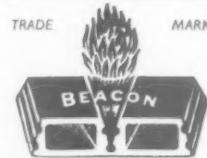


CELLON LIMITED • KINGSTON-ON-THAMES • PHONE: KINGSTON 1234  
CVS-776  
D

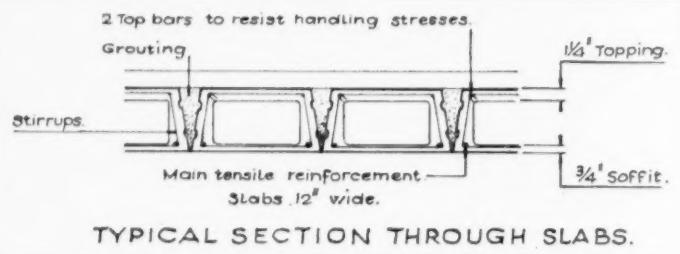
FLOOR AND  
ROOF SLABS

FABRICRETE PRODUCTS, LTD.  
LITTLETON LANE, SHEPPERTON, MIDDX.

Telephone : CHERTSEY 2315 and 2335



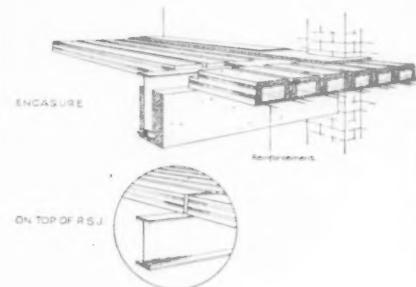
## "BEACON" FLOOR and ROOF SLABS



The Advantages of this type of Construction are :—

- (a) Speedy Construction.
  - (b) Strength with Lightness.
  - (c) Resistance to Fire and Sound Transmission.
  - (d) Absence of Shuttering.
- We welcome enquiries as to prices which will be found to compare very favourably with other forms of slab construction and would be pleased to assist in the preparation of schemes without any obligation whatsoever.

The "Beacon" Precast Floor and Roof Slabs have been used in the construction of various buildings on the Harlow Industrial Estate.



TYPICAL ILLUSTRATION.

*It's a good plan to specify*

**Maxheat**  
**OVAL**

**TUBULAR  
ELECTRIC  
HEATERS**

*for better  
Space heating*

*The World's best sellers*

THE **Wardle**

ENGINEERING CO LTD OLD TRAFFORD MANCHESTER 16

...good job  
we changed to  
'417 cement' in time"

It's a wise precaution to change to '417 Cement' before sudden temperature falls cause frost damage to concrete. With '417 Cement' concrete work can be continued safely during cold weather. Please write for booklet giving full details.

**'417 cement'**

QUICK SETTING — EXTRA RAPID HARDENING

THE CEMENT MARKETING CO. LTD, Portland House, Tothill St., London, SW1  
or G. & T. EARLE LTD, Cement Manufacturers, Wilmington, Hull  
THE SOUTH WALES PORTLAND CEMENT & LIME CO. LTD, Penarth, Glam.

BRITISH CEMENT IS THE CHEAPEST IN THE WORLD

A BLUE CIRCLE  
**CMC**  
PRODUCT



## Ah! This is just the job

**Above Ground** with B.S.S. 659/1944  
AND  
**Below Ground** with B.S.S. 1386/1947  
Copper Tube

Because :—

★ This is THE MOST EFFICIENT metal to metal joint with no loose rings, cones or ferrules, self-seating by means of swage or circular ridge. Made in less than half a minute as illustrated.  
DOUBLE GRIP CANNOT SLIP.

★ Smaller, neater, and far less expensive than alternate methods of jointing.



British Patent No. 596673.

★ Reduces maintenance trouble to a minimum as it cannot pull off in heat or frost. Will undo and re-make.

★ Prompt delivery.

Universally approved by Government Departments, Water Works, and Local Authorities, etc.

★ For full particulars and illustrated catalogue write to :

**KINGS LANGLEY ENGINEERING CO. LTD.**

KINGS LANGLEY · HERTS

TELEPHONE : KINGS LANGLEY 2215-6

TELEGRAMS : CHAMPION · KINGS LANGLEY

## INS AND OUTS! (No 5)

Drivers of the Potteries Motor Traction go in and out of their new garage at Hanley, with perfect ease. These Esavian doors slide and fold back leaving the entrance completely free for manoeuvring.

If you have a door problem, the experience of the Esavian organisation is entirely at your disposal.

Architect : William E. Gott

### Building Exhibition

Visit our Stand

No. 40, Row B.

THE  
**ESAVIAN**  
PRINCIPLE  
FOR DOORS, WINDOWS, PARTITIONS & FOLDING SCREENS

**ESAVIAN**

Esavian Limited, Esavian Works, Stevenage, Herts. Tel: Stevenage 500. 101 Wellington St., Glasgow, C.2. Tel: CEN 2369

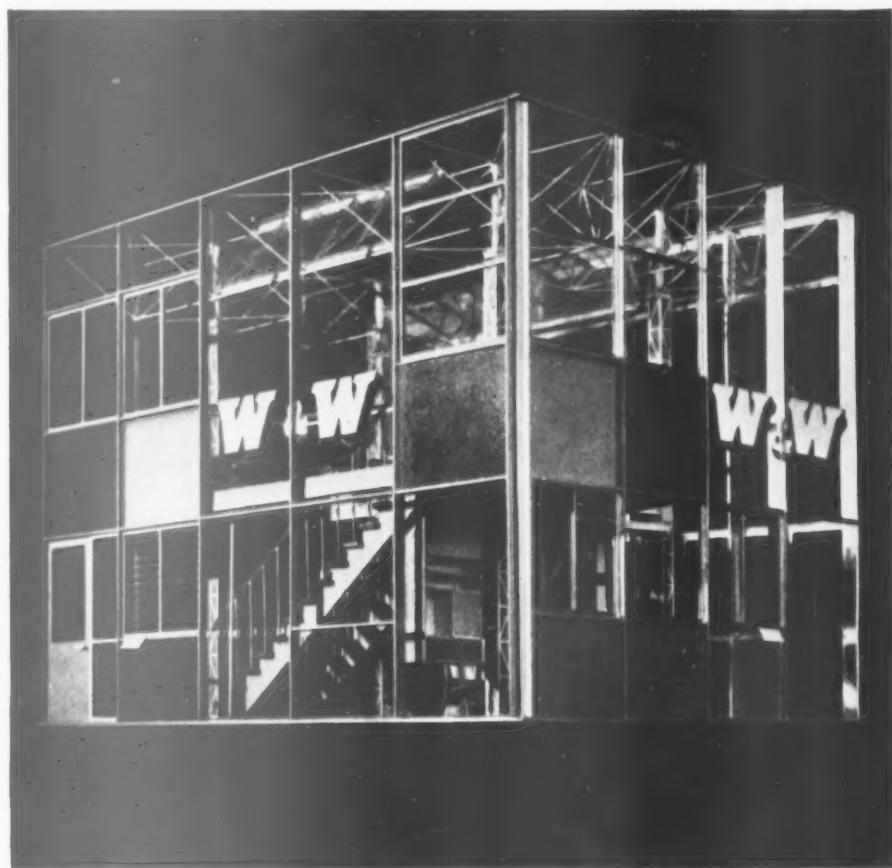
*Architects:* Turke, Rosenberg and  
Marsden, F.R.I.B.A.

*Associate Architect:* T. R. Evans, A.R.I.B.A.

*Assistant in charge:* W. Park, A.R.I.B.A.

*Consulting Engineers:*  
Clarke, Nichols & Murrell

**STAND D 83**



## Come and see **WALLSPAN** *the new curtain walling*

Instead of walls—Wallspan! You'll see the "how" and the "why" and all the tremendous advantages of this new cladding system at our Building Exhibition Stand. You can talk facts and figures with our representatives; and they will quickly fill in any details you may need. The stand is an actual example of Wallspan, showing how other Williams and Williams products and various in-fillings can be used in the Wallspan system. You can see and operate the latest metal windows including double hung and awning in aluminium—standard and purpose-made in steel. Teleflex gearing is used for remote control of windows and Aluminex patent glazing. There are examples of pressed steel products, architectural metal work and Rofton toilet cubicles either in displays or in the stand itself. Hope you can come along.

**WALLSPAN CURTAIN WALLING**

WILLIAMS & WILLIAMS LTD • RELIANCE WORKS • CHESTER

**WILLIAMS & WILLIAMS**

## L.T. GARAGE • STOCKWELL

**Half-a-Million Facing Bricks  
and Common Bricks  
General Building Materials**

Supplied by

## HALL & Co. LTD.

BRITAIN'S LEADING

## BUILDERS' MERCHANTS

Head Office :  
**VICTORIA WHARF • CROYDON**  
Tel : CROYdon 4444

London Office :  
**CHANTREY HOUSE,  
ECCLESTON ST., S.W.1**

SIXTY METROPOLITAN &  
PROVINCIAL BRANCHES.



LONDON TRANSPORT  
GARAGE AT

**STOCKWELL**

ILLUSTRATED IN THIS ISSUE

Architects :  
**ADIE, BUTTON & PARTNERS**

IN THIS UNUSUAL  
STRUCTURE BUILT  
UP ROOFING WAS  
UNDERTAKEN BY  
SUPER PHALT LTD.

**SUPER PHALT LTD.**  
**3 & 5 RAINHAM ROAD, RAINHAM, ESSEX.**

TELEPHONE : RAINHAM 3232



ARCHITECTS : MESSRS. ADIE, BUTTON & PARTNERS, F.F.R.I.B.A.

CONTRACTORS : MESSRS. WILSON LOVATT & SONS, LTD.

LONDON TRANSPORT BUS GARAGE, STOCKWELL

"HILL ALDAM"  
SLIDING DOORS

6,700 FEET SUPER OF FOLDING DOORS COVERING 12 OPENINGS

E. HILL ALDAM & CO., LTD., The Sliding Door People, Britannic Works, Haslemere Avenue, London, S.W.18

The shell roof construction of this fine modern garage required supports which would not settle. 170-19 in. diameter Bored Piles were installed by us to carry all the main column foundations and individual piles were successfully tested to 90 tons. A great advantage of this type of piling is that noise and vibration are reduced to a minimum.

*For further information write for our illustrated booklet.*



Architects : Adie, Button & Partners, in association with Thomas Bilbow, F.R.I.B.A.  
Contractors : Wilson Lovatt & Sons, Ltd.

# The CEMENTATION COMPANY LIMITED

BENTLEY WORKS · DONCASTER  
PHONE: DONCASTER 54177-8-9      LONDON OFFICE: 39 VICTORIA STREET, S.W.1      PHONE: ABBEY 5726-7-8

# PLAND

*Stainless Steel Domestic Sink Units  
Planned for All Kitchens*

One piece sink units with stainless steel drainers and bowls. No joints to harbour dirt and infection. The most durable form of construction, will last a life time. The whole satin finished for ease of cleaning, long wear without marking, and free from reflective glare.

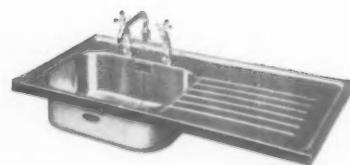
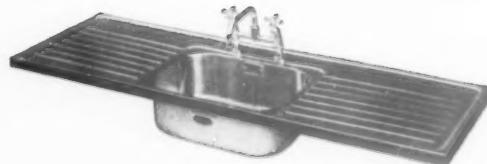
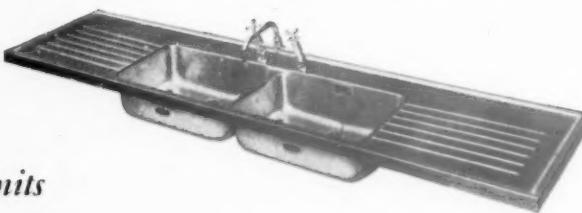
Manufactured in many types and sizes to suit all the Markets of the world. Send for our illustrated catalogue and price list.

**The Stainless Steel Sink Co., Ltd.**

*Head Office:— Ring Road, Lower Wortley, Leeds, 12*

*London Office:— 14, Great Peter Street, S.W.1*

England





## ROBERTSON Q-PANELS

Robertson Q-Panels offer a 95% reduction in dead load weight and a 33% reduction in heat losses, when compared with a conventional 11" cavity wall.

This latest addition to the Robertson range of products provides the designer with a unique medium for architectural expression.

The ease and speed with which large areas of Q-Panel are erected permit earlier utilisation of building space.

Literature sent on request

**ROBERTSON THAIN LTD**

ELLESMERE PORT · WIRRAL · CHESHIRE

Sales Offices:  
LONDON, GLASGOW, BELFAST, BIRMINGHAM, NEWCASTLE, LIVERPOOL, SHEFFIELD, MANCHESTER, CARDIFF and EXMOUTH  
Agents in most countries throughout the world

PRAED STREET STATION  
LONDON TRANSPORT EXECUTIVE



this roofing  
problem was solved by using . . . . .  
Permanite Built-up Roofing

THE CONSTRUCTION OF THIS ROOF, being a boarded barrel-vault, called for a flexible, waterproof, fireproof and durable roofing. Permanite Limited were able to meet this specification with one of their Flexible Built-up Bituminous Roofing Systems as follows :—

The first layer consisted of Permanite "Asbex" (Asbestos base) Roofing, followed by a second layer of Permanite Granite/Green Mineral Surface Roofing. Both layers laid breaking joint and bonded with hot bitumen by our experienced craftsmen. This system ensured the waterproofing and fireproofing of the roof, whilst also providing an attractive and durable finish.

This is but one of the many Permanite Roofing Systems. Our Technical Staff are always at your service for Advice and Estimates without obligation.

# PERMANITE LIMITED

BIRMINGHAM  
220 Kingstanding Road, 22c

Telephone:  
BIRchfields 5041/2

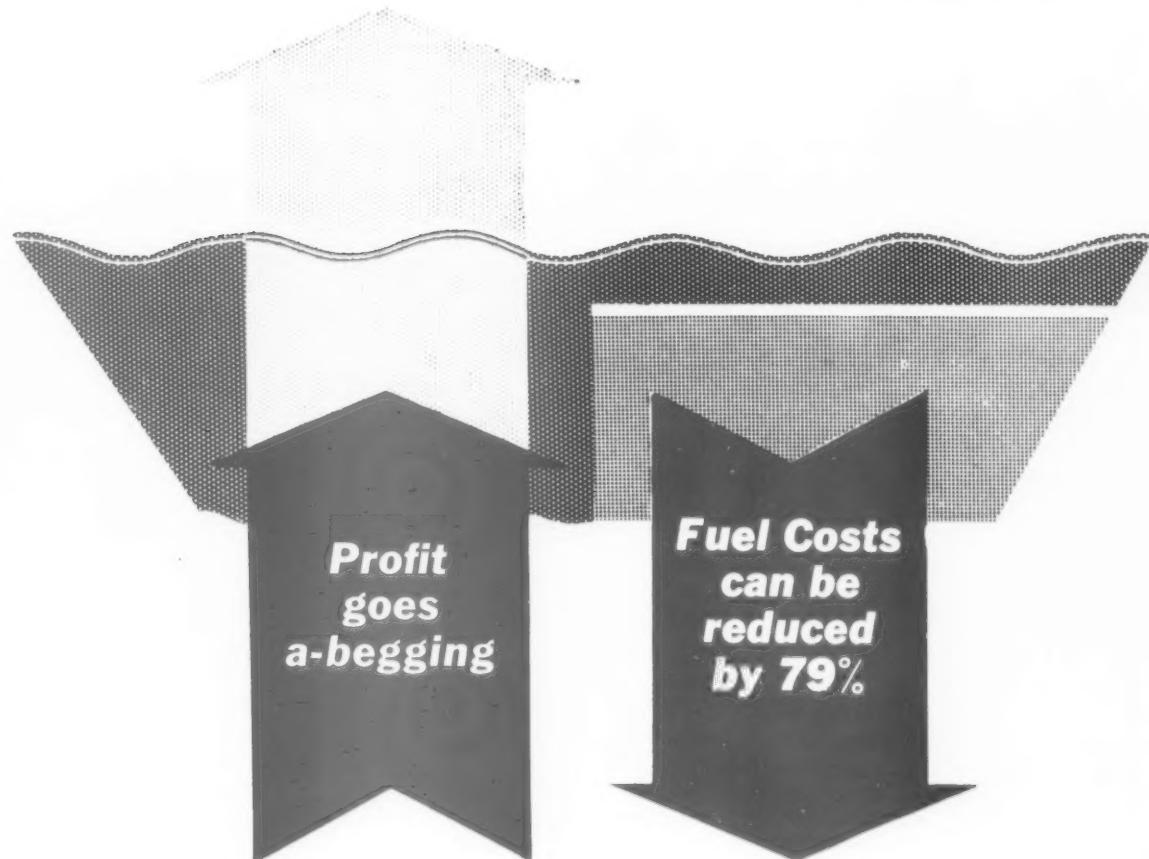
LONDON — HEAD OFFICE  
455 Old Ford Road, E.3

Telephone:  
ADVance 4477 (10 lines)

SALFORD  
Stanley Street, Salford, 3, Lancs.

Telephone:  
BLAckfriars 9469

**Where structural insulation is ignored,  
fuel consumption in any building is excessive**



**'Paramount'** Insulating Plaster Board

converts fuel wastage into profit. For instance, an uninsulated factory roof of corrugated iron requires 8·4 tons of fuel per 1,000 square feet of roof surface per annum to compensate for heat losses. Actual tests prove that when the same roof is lined with  $\frac{3}{8}$ " Paramount Fire-resisting Insulating Plaster Board, leaving an air space between corrugated iron and lining, the amount of fuel used drops to only 1·8 tons . . . a saving of 6·6 tons or 79%.

Fuel economy is but one of the many reasons why Architects and Builders rely on 'Paramount' . . . the best of all insulating boards.

*Factory roofs and walls, lined with 'Paramount' Insulating Plaster Wallboard, fixed by the 'Parafix' System, have greatly increased thermal insulation and fire-resistance. The capital outlay is quickly recovered by the fuel economy achieved.*

We shall be pleased to see you on  
STAND 94 ROW E  
Building Trades Exhibition Olympia

**THE BRITISH PLASTER BOARD LIMITED**

SOUTHERN SALES OFFICE  
MORRIS HOUSE,  
1-5 JERMYN STREET, LONDON, S.W.1.  
Telephone: Whitehall 9821



NORTHERN SALES OFFICE  
BIRKENHEAD ROAD  
WALLASEY, CHESHIRE  
Telephone: Birkenhead 1411

# Ascot

## the single-minded water heater

The Ascot is an expert. It *specialises* in giving hot water, and this it does more efficiently than any jack-of-all trades appliance.

- 1** Fuel is burned only while hot water is being drawn. The same water does not have to be re-heated over and over again; *payment is made only for the water actually used.*
- 2** Hot water flows the instant it is wanted. There's no waiting for a tank to heat up. That means a trouble-free hot water supply all the year round.
- 3** The supply is inexhaustible; Ascots never run cold. For as long as the tap is turned on hot water continues to flow.
- 4** Ascots make no dirt or dust, and need no stoking. They are completely automatic.
- 5** As no fire need be lighted to get hot water the kitchen is always cool in summer.
- 6** An ordinary open fire and an Ascot multipoint to give an instant, endless supply to three points cost no more to install than a back boiler which supplies three points *only if the tank is hot.*

*There's an Ascot for every domestic need, from the inexpensive sink heater to a large multipoint that will supply all the taps in the house.*

### ASCOT 715

The very latest multipoint model and the world's first Balanced Flue gas water heater. Specified by 41 housing authorities for their own flats and housing schemes.

Has these outstanding advantages :—

- 1** Beautiful streamlined appearance.
- 2** Down-draughts into the room impossible.
- 3** Products of combustion *cannot* get into the room.
- 4** Completely automatic, 100% safe.
- 5** Supplies all the taps in the house, and can be coupled to the pipes of an existing system at low cost.

**Four of every five instantaneous gas water heaters sold are Ascots. More than a million have been installed in British homes.**



The Balanced Flue Ascot 715 can be installed in a bathroom with complete confidence.

*That's proof of*  *Leadership*

**ASCOT GAS WATER HEATERS LIMITED • 255 NORTH CIRCULAR ROAD • LONDON NW10**

A member of the PARNALL Group of Companies

Vol. 204 No. 20

THE  
**ARCHITECT**  
& BUILDING NEWS

November 12, 1953

The "Architect and Building News" incorporates the "Architect," founded in 1869, and the "Building News," founded in 1854. The annual subscription, inland and overseas, is £2 15s. Od. post paid: U.S.A. and Canada \$9.00.

Published by ILIFFE & SONS LTD., DORSET HOUSE, STAMFORD STREET, LONDON, S.E.1  
Telephone: WATERLOO 3333 (60 lines).  
Telegrams: "ARCHITONIA, SEDIST, LONDON."

Branch offices: Coventry: 8-10 Corporation Street; Birmingham: King Edward House, New Street; Manchester: 260 Deansgate, Tel. Blackfriars 4412 (3 lines), Deansgate 3595 (2 lines); Glasgow: 26B Renfield Street.

## OPERATION RESCUE

THE recent White Paper on Houses\* has been received with many comments and some mixed feelings. Many of these are, to some extent, coloured by political bias and must be discounted proportionally by any who wish to assess the possible results of the adoption and legislative implications of the proposals made in the White Paper.

The suggestions officially made are three-pronged. The repair of essentially sound houses, arranged in the main through the medium of an increase in rents, based on a sort of sliding scale related to the repairs allowance already in existence, with a limit of about twice that of 1939. The making of existing houses fit for habitation, if necessary by improvements and conversions, mainly by extending and publicizing the grant system already existing under the Housing Act of 1949. And, thirdly, the general speeding-up of slum clearance by housing authorities.

All these proposals visualize the easing of the general overall housing problem by long-term dealing in various ways with existing usable dwellings, a policy we have for a long time stressed as an essential part of the whole housing question. What is deplorable is the delay which has occurred in the whole inter-related process. To instance only one relevant fact: soon after the war, in spite of material shortages and other difficulties, some 2,500,000 war-damaged houses were repaired, but the organization and drive behind this effort was allowed to dissipate and was not extended into the field of general repairs to dwellings that had suffered six years of enforced neglect. Had some sort of policy been adopted then the present state would not have been quite so bad. The situation has not been improved by intensive drives for new homes and the launching of other essential programmes. A properly planned balance

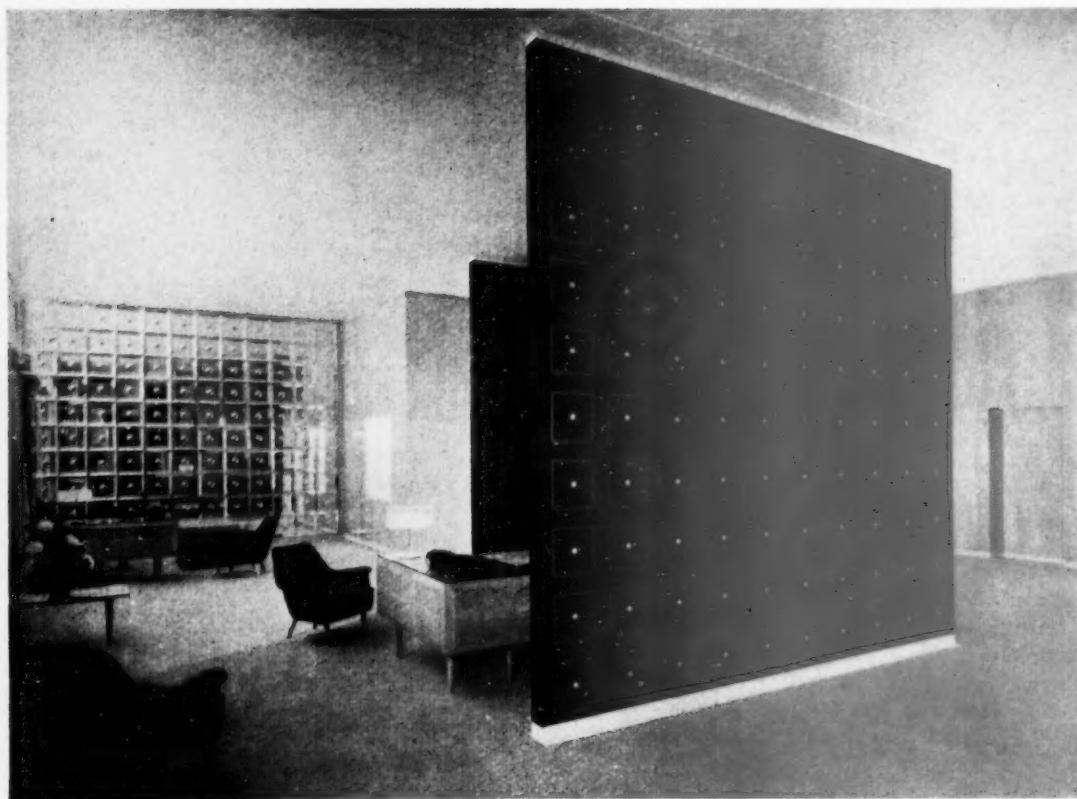
between these many-sided requirements is a national matter which need not have anything to do with politics.

One of the obvious questions that arises is whether an increase in rents based on a rating valuation system, and which is statutorily applied to repairs only, will find the landlords happy in their lot. Where property is regarded as an investment, and this applies to many small property owners as well as large ones, the increases proposed do not help the landlord to meet other increased costs, including even the cost of living. This apart from any criticism there may be of existing rating valuation. The only inducement is that a landlord may be able to ensure a minimum preservation of his property, though he knows the increases often will not meet the full consequences of the wartime enforced neglect. Tenants may be better off and being so may not object strongly against increased rents. As the scheme progresses it will be interesting to note effects on the property market and whether sales will increase and values rise.

If improvements under the 1949 Act grant system are to be extended to any great length the arrangements made with local housing authorities will have to be greatly improved and wider inducements will be required for action by owners. Slum clearance is a larger programme and one which must operate over a long term; it is so much overdue and so related to germane factors of space for housing in the hardcores of larger towns, decanting of population and even to the policy of new towns and provisions for overspill, that to stress the issues again becomes merely tiresome. Both these latter White Paper proposals concern the Local Authorities who will find as and when they are proceeded with, a necessity for a considerable increase of staff.

How will the various proposals affect the building industry and the architect? The latter will doubtless

\* Houses, The Next Step. H.M.S.O. (Cmd. 8996-1953). 9d. net.



New showroom for Messrs. Kayser Bondor Ltd. in Albemarle Street which was opened on October 21. The designers were Misha Black and Sir Hugh Casson in collaboration. The partitions are in green and gold.

be involved in conversions and improvements made within very fine limits of costs, and have all the headaches of this sort of work, increased by being carried out against the demands of other programmes and against a rising market of costs and by means of an increasing scarcity of labour. The building industry will find related things at the operative end.

We have already pointed out that it is difficult to see how the various programmes recently mooted can be consummated simultaneously. Even if the overstressed new housing is limited to 300,000, or slightly under, per year, there are other demands than those now put out by the White Paper. An extended industrial building programme, already visualized by existing licence issues, the new policy of the Ministry of Education for the reconstruction of obsolescent schools to assist their new school programme are only two of these demands which the industry must meet.

The real test of the present proposals is whether there is man-power to carry them out and whether the materials required can be forthcoming. If all these things are really urgent and, after discounting the political facets, are essential for the well-being and survival of the country as a leader in the modern

world, is it not imperative that time and urgency were recognized as more essential even than cost? Has it yet been ascertained whether two, or even three, shift continuous processes, even with the man-power at present available would not be an economic advantage? An intensive drive to get the essential jobs done over, say, a three-year plan, might bring this country back to a real period of expansion, instead of existence within an ever-present half-and-half process of dealing with old and new problems at the same time. The background of any such drive is propaganda and its psychology applied to extend the will to get things straightened out and to curb the apathy of frustration caused by so many things always seen half-finished. Something like this intensive process is already operating with considerable effect in Germany, and our exports are already feeling the cold blast of increased competition.

Maybe our review of the White Paper has led us amongst avenues where it is easy to get lost, but we would suggest that exploration is still a habit of the human intellect and that the overturned stone of one White Paper, even if it does go as far as this one, is not enough.

## EVENTS AND COMMENTS

### THE PRESIDENT SPEAKS

You will have read the extracts from Mr. Howard Robertson's speech which were published last week. It was a good evening and everyone talked sense, even if some of them did it for rather too long. Mr. Robertson, I think, voiced the opinion of many of us that modern architecture is not good enough, that a good engineering solution is not necessarily good architecture and that buildings designed for widely different purposes should not look exactly like each other. If Mr. Robertson did not in so many words tell us what to do to alter it it is only necessary to look at his own designs to see that he follows no one, but in his many years' experience has built up for himself a personal architecture. It seems to me that it is this personal architecture which is lacking in most of the buildings which are being put up to-day. It is true that in housing and schools the rules are such that a personal style is indeed difficult to develop. It is, however, possible and as examples I give the housing estate at Beaumaris by Mr. Colwyn Foulkes, and the L.C.C. open air school at Bow Road by Farquharson and McMorran. Mere ingenuity of planning or construction is not enough. It is the spark of understanding that is vital.

We are lucky that our Minister of Works is so interested in architecture and the arts. Particularly in a government that has shown itself in other ways to be lukewarm about planning and architecture. It would be very unpleasant, to say the least, if in any future switch round of the Cabinet the present Minister were replaced by anyone less cultured or less interested in the development of good architecture.

The evening at the R.I.B.A. closed with the presentation of the Institute's London Bronze Medal for a building completed in 1952. This was awarded to Farquharson and McMorran for the school already referred to. Even allowing for the forgivable exaggerations of such an occasion all the parties involved in the job, from client to operative, seem to have enjoyed building this school and to have got along together extraordinarily well. Perhaps a building which is well designed and has the spark, which I mentioned earlier, does lead to happiness on the site, smiles all round and, sometimes, to a bronze medal.

### THE JUBILEE BUILDING EXHIBITION

The 25th Building Trades Exhibition opens at Olympia on November 18. Once more it will completely fill the space and doubtless many of the same old stands will be on their accustomed sites and doubtless we shall all meet in the R.I.B.A. room kindly provided by a thoughtful management. A management which, furthermore, provides every member of the R.I.B.A. with the opportunity to give 3s 6d to the Architects Benevolent Society at absolutely no expense to himself. In your last R.I.B.A. Journal there was a ticket entitling you and a friend to free entry to the exhibition and free tea. For every ticket handed in the Building Exhibition will give 3s 6d to the A.B.S. Do not let this handsome generosity go unrecognized by your failure to present the ticket. In addition to all the usual stands there will be two special sections this year devoted to pre-stressing and pre-fabrication.

The A. & B. N. stand will be in the Grand Hall, Row G,



No. 145. On it, among other things, you will find the model of High Paddington.

### CONTEMPORARY SPANISH ARCHITECTURE

The delayed exhibition at the Building Centre is now open and will remain so until November 21. Many of the photographs are excellent but I find the buildings disappointing. Here, if you like, is a personal architecture, but one which with very rare exceptions looks backwards and never forwards. Indeed, the best of the buildings shown are those which most closely follow traditional types, and here I am thinking of some pleasantly detailed courtyards and a block of almshouses. On the other hand some of the buildings have the harsh monumentality associated



*British Standards House, 2, Park Street, W.I., where all departments and services of B.S.I. are now centralized.*

with the works of Hitler and Mussolini. The examples of blocks of flats are heavy and lifeless and one cannot help wondering whether this is a truly representative exhibition. It is a great pity that the students' work which was expected was not in the end included in the exhibition for there, if anywhere, the trend of Spanish architecture could have been examined. No doubt Spanish architects are hampered in their work by shortages of modern materials but this does not explain their lack of sensibility in the handling of traditional materials. One would have thought that with the splendid architectural heritage, that is illustrated in the historical section of the exhibition, a nation of traditional architects would have made a better showing. We must, however, be grateful to the Spanish Government and to the Building Centre for allowing us to see this exhibition for it is news from Spain and full of interest.

#### CHRISTMAS CARDS

If you do not design your own and have not already bought cards from the A.B.S., may I draw your attention to a charming series available from the United Nations International Children's Emergency Fund (UNICEF)? There are six cards; a set of five showing children playing in different parts of the world, drawn by Lewitt-Him, the sixth is an abstract design specially drawn by Henri Matisse. Cards are made up in sets of ten, price 7s 6d. Further particulars from UNICEF Greeting Card Fund, 39, Kingsway, W.C.2.

Calling on Miss Solly for news of the A.B.S. Ball (tickets going better than ever before), I found her in the most tremendous form, having just returned from Copenhagen where she had been acting as manager and reserve for the English Women's Fencing Team. Not only did they beat Denmark, and for the first time ever on Danish soil, but they had a wonderful time as well. One Copenhagen newspaper said that the two fastest things in town were Neville Duke—on a demonstration tour—and the English Ladies' Fencing team in action.

I shall never dare to cross swords with Miss Solly again.

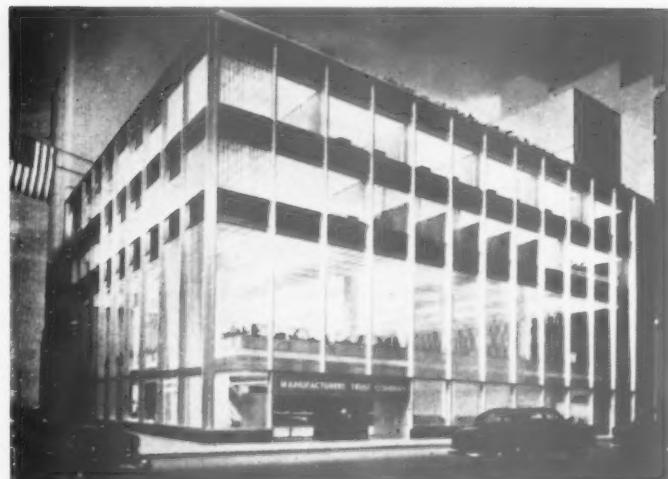
#### FRANCO-BRITISH UNION OF ARCHITECTS

This jolly association of French and British architects offers a prize annually in a competition set by the "Professeur de Théorie" at the Ecole des Beaux Arts for French and British architectural students. Other prizes are given by the French Government. An exhibition of the prize-winning designs will be opened at the R.I.B.A. on November 17 and will remain open until November 21. Monsieur René Varin, Cultural Attaché at the French Embassy, will open the exhibition and Sir Patrick Abercrombie will be in the chair.

In the past this competition, which consists of a sketch design and a three-week subject, has not attracted a very strong entry and some of the work submitted has been of deplorably low standard. Let us hope that this year's designs will be better. For, if the Union is unable to attract a representative entry from the architectural students of this country it might be better to let the prize lapse.

#### THE LARGE BURGH OF DUMFERMLINE

I hear that the Burgh Council is to consider the reorganization of its technical departments. In the past all



The proposed new building of Manufacturers Trust Company, New York. Architects : Skidmore, Owings and Merrill. The building is to cost 3 million dollars, and is almost an air conditioned glass box, giving a clear view of internal activity within the bank. Mechanical, electrical and acoustical requirements have been integrated into a luminous ceiling. The sealed glass walls will be washed from scaffolding operated from built-in roof equipment.



Frank Lloyd Wright with the model of his projected 18-storey office building, Price Tower, Bartlesville, Oklahoma, which is one of the 16 models in the exhibition of F.L.W.'s work held recently in the Solomon R. Guggenheim Museum, New York.

the architecture has been done under the supervision of the engineer. It is now suggested that there should be an architect and planner to look after the architecture and an engineer to do the engineering. I have yet to see really good development work from a council where the architect's department is supervised by an engineer. Let each profession follow its own particular skill. On, Dumferline! on!

#### ARCHITECTS AND BUILDING CRAFTSMEN

An interesting course is being held at the Hammersmith School of Building Arts and Crafts. It is designed to bring designer and craftsman closer together. In general, building schools have been slow to realize changes in architectural design and students frequently spend much time and trouble making things and carrying out manoeuvres which no architect would now dream of designing. On the other hand, architects seldom have the time or opportunity to study developments in craft training which have taken place as a result of the introduction of powered hand tools and new materials. The course at Hammersmith is designed to cover this ground. Mr. Robert Elliott, who

will be in charge of the course, is, by reason of his experience as a builder and instructor in building construction, well qualified for his task.

#### SOMETHING WORTH COMPETING FOR

On another page you will find a preliminary notice of a most exciting competition which is being organized by McGill University with generous financial support from a firm of Canadian distillers. With a first prize of \$5,000 and a second of half that amount for designing a house for a family of five, architects may consider that it is worth while taking a lot of trouble.

#### TAILPIECE

The fourth chimney of Battersea power station was completed last week and proudly flew the White Ensign, a tradition which seems to be less well observed in London than in the provinces. The practice varies from district to district, some flying the flag when the ridge piece is in position and some waiting until the highest point, usually a chimney stack, is reached. Some European countries use an evergreen wreath on the same occasion. Are wreaths ever used in this country?

A B N E R

## N E W S O F T H E W E E K

### Notes from the Minutes of the R.I.B.A. Council Meeting held on November 3

#### Sessional Papers

The Secretary reported that Professor Charles Madge would not after all, be able to give his paper on "Sociology and Architecture" on March 2, 1954. It was agreed to consider an alternative subject and speaker.

#### R.I.B.A. Dinner

As already approved, the R.I.B.A. Dinner will be held at Grosvenor House on Friday, February 19, 1954.

It was agreed that the time should be 7 p.m. for 7.30 p.m., that the price of the tickets should be 32s 6d each, exclusive of wines, cigars, etc., and that dress should be evening dress with orders and decorations, or uniform, if desired, for those entitled to wear it.

#### R.I.B.A. Reception

In view of the date of the Annual Dinner in February and of the British Architects' Conference in May, it was agreed that there should be no R.I.B.A. Reception in 1954.

#### Exhibitions

On the recommendation of the Public Relations Committee, it was agreed that an exhibition on Fire Prevention, arranged by the Department of Scientific and Industrial Research, should be shown at the R.I.B.A. during February, 1954. It was also agreed to show an exhibition on the Rebuilding of Warsaw, offered by the Polish Cultural Institute, for a period in the late spring of 1954.

#### Council for Codes of Practice for Buildings: Future Organization

A draft plan for the future organization of the Council for Codes of Practice for Buildings, submitted by the British Standards Institution, was considered. The plan provides for the administrative responsibility to be assumed by the British Standards Institution and for the Codes of Practice Council to continue to be responsible for Codes of practice Committees and for all drafting work, while being integrated into the organization of the B.S.I. immediately subordinate to the General Council of the B.S.I.

It was agreed to approve the proposed organization on the understanding that the codes of Practice Council and its Committees retain a wide measure of autonomy in the work of drafting codes of practice.

#### R.I.C.S.

At a general meeting held at the Royal Institution of Chartered Surveyors on November 9, His Royal Highness The Duke of Edinburgh was unanimously elected as Honorary Member of the Institution.

#### APPOINTMENT

Mark Hartland Thomas, O.B.E., M.A., F.R.I.B.A., M.S.I.A., has been appointed Secretary to the Modular Society.

#### EXHIBITION

"Brief City," the "Observer" film of the Festival of Britain South Bank Exhibition, will be shown at the Building Centre, Store Street, Tottenham Court Road, from Monday to Friday, November 23 to 27, 1953, daily at 5.30 p.m. and 6.15 p.m. Admission free without ticket.

#### COMING EVENTS

##### *The Housing Centre*

November 17 at 4 p.m. Discussion on "The Future of Almshouses." Chairman: Sir Ernest Rock Carling, at 13, Suffolk Street, Haymarket, S.W.1.

*The Royal Institution of Chartered Surveyors.*

November 17 at 6.30 p.m. Annual Dinner of the Chartered Quantity Surveyors, at Grosvenor House, Park Lane, W.1. Principal guest and speaker, The Right Honourable Sir David Eccles, K.C.V.O., M.P., Minister of Works.

##### *Royal Society of Arts*

November 18 at 2.30 p.m. Opening of the 200th session. H.R.H. The Duke of Edinburgh, K.G., President of the Society, in the chair. Inaugural Address, "The First President," by the Right Hon. the Earl of Radnor, K.C.V.O., Chairman of Council, at John Adam Street, Adelphi, W.C.2.

##### *Society of Chemical Industry.*

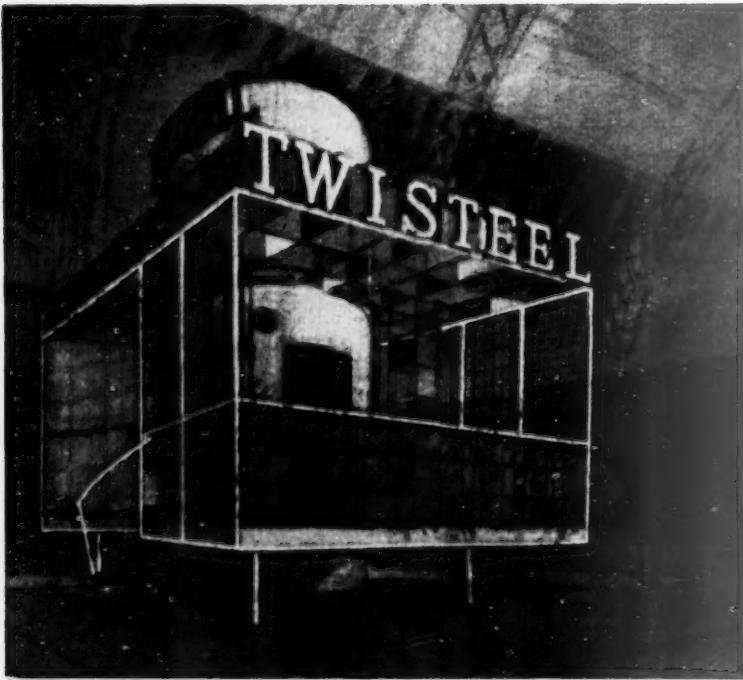
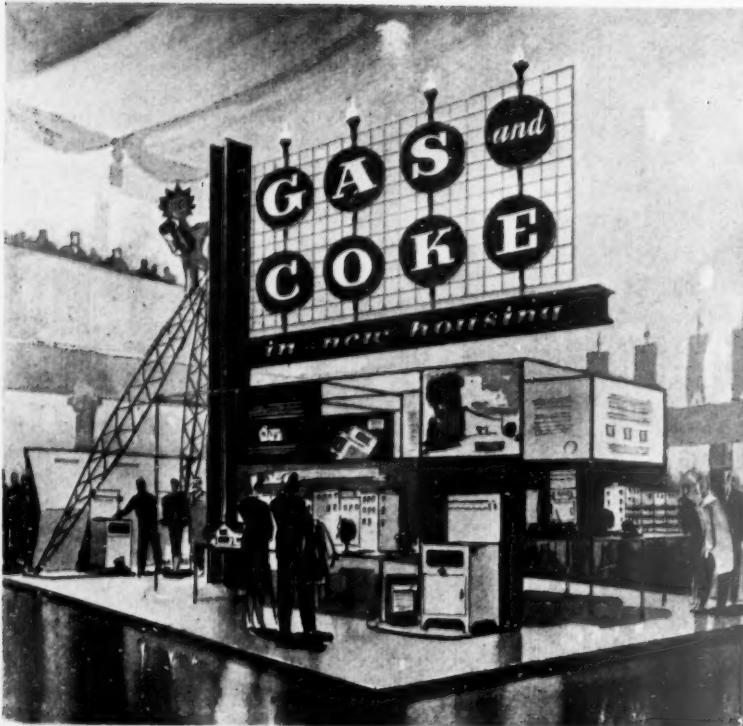
November 19 at 6 p.m. Talk on "Reasons and Methods for Timber Preservation," by E. H. Nevard, British Wood Preserving Association, at the Institution of Structural Engineers, 11, Upper Belgrave Street, S.W.1.

##### *Students' Planning Group*

November 19 at 6.30 p.m. Talk on "Architecture and the Development Plan," by Professor R. Gardner-Medwin, B.Arch., F.R.I.B.A., M.T.P.I., Professor of Architecture at Liverpool University, at 28, King Street, Covent Garden, W.C.2.

#### COLD STORE AT ACTON

We regret that the news report of T. Wall and Sons, Ltd.'s new cold store on page 523 of October 29 was printed without the architects' knowledge; their correct style and title is: J. Stanley Beard, Bennett and Wilkins.



2

**BUILDING  
EXHIBITION  
STANDS**

1. Stand designed by Exhibitions Department, Gas Council.
2. Stand designed by Noel Moffett.
3. D. Anderson & Son Ltd., of Manchester, stand designed by Jack Diamond, consultant Misha Black, mural and typo-

**Preliminary Announcement  
of Competition**

A competition has been announced in Canada for a "Canadian House of To-morrow," open to Canadian, British and European architects, but not to Americans or Russians. The competition is sponsored by McGill University School of Architecture, and the prizes, which are offered by Calvert Distillers, Ltd., are \$5,000 for the best entry and \$2,500 for each of the best Canadian and European entries. There will be ten honourable mention awards of \$200 each.

The assessors, whose names are not yet known to us, will be three-man panel, two Canadian, one European. Professor John Bland, Director of the McGill School of Architecture, is reported as saying that the competition is inspired by the Massey Report, which referred to the fact that although architecture has the greatest influence of all the arts on the manner of living, it is largely ignored by the public. Professor Bland said that "by attracting world-renowned architects we shall succeed in developing the widespread interest in the subject which is necessary if we are to develop architecturally as we have in other arts." Rules will call for house to be in good taste, simple in design, centrally heated and neither impractical to maintain nor too costly to build.

It would be for a family with three children under 15 years of age, and a car. We are thinking of a house in a small town or a suburb of a big city. It would have a garden and a fair amount of space about it. Entrants he said, should allow for a climate of intense variability.

Associated with Professor Bland, who is professional adviser in the competition, is Pierre Morency, director of the School of Architecture, L'Ecole des Beaux Arts. The competition will open about December 1 and close on April 1, 1954. Further details will be published when known.

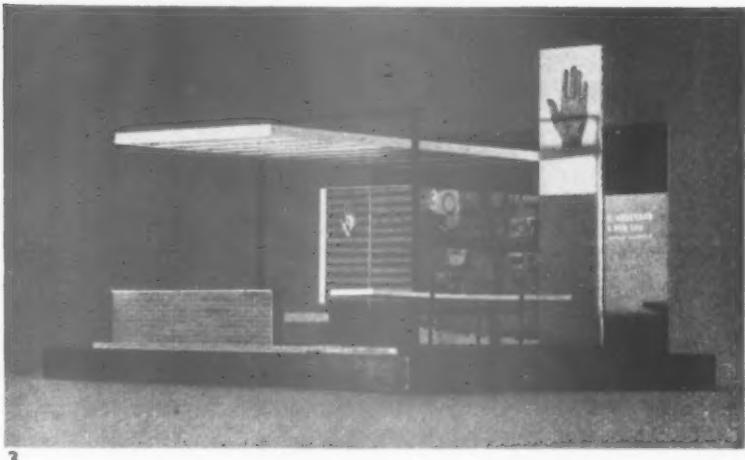
**Housing Progress, September**

The Housing Progress Reports presented to Parliament as White Papers by the Minister of Housing and Local Government and the Secretary of State for Scotland, show that the number of permanent houses completed in Great Britain during September was 28,516 compared with 22,323 in September, 1952.

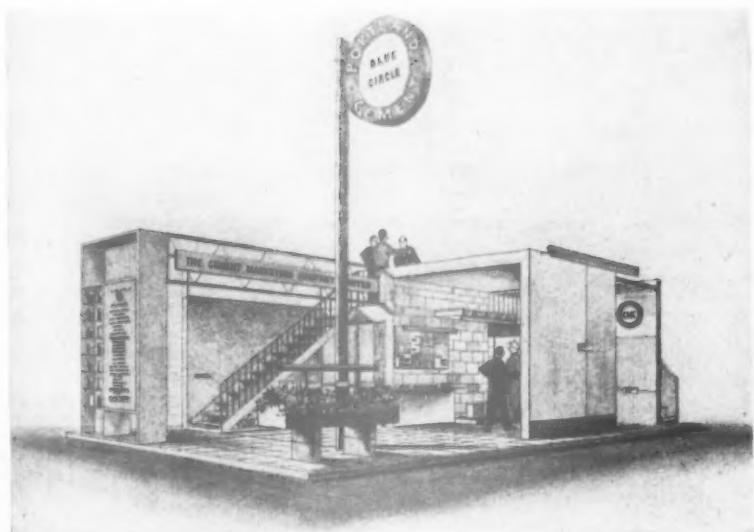
In the first nine months of 1953, 225,863 permanent houses were completed compared with 171,093 in the same period of 1952.

graphy by Jock Kinnair, all of Design Research Unit.

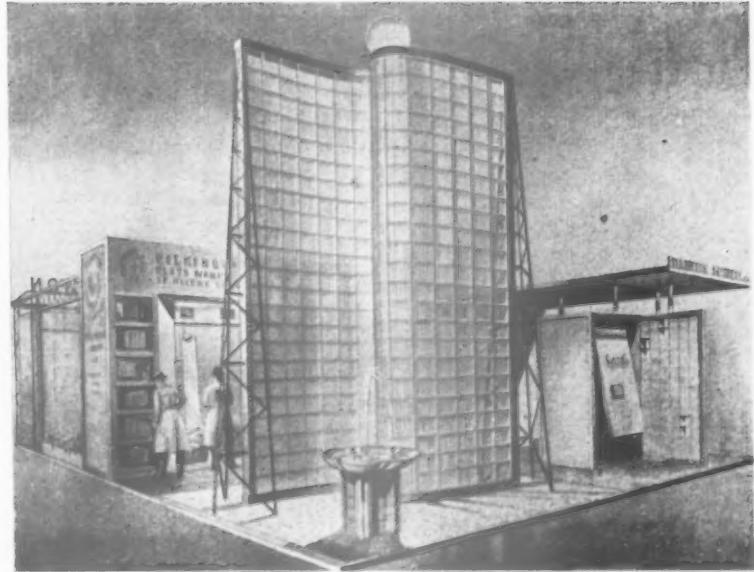
4. Stand designed by Kenneth Bayes and Jack Diamond of Design Research Unit.
5. Stand for Pilkington Bros. Ltd. designed by S. M. S. Sternfeldt.



3



4



5

## Improving Old Schools

Miss Florence Horsbrugh, the Minister of Education, said at Leamington on October 31 that next year local education authorities should be able to do more to improve old schools.

The Minister said that the total allocation for minor building works (those costing less than £7,500) in next year's educational building programme had been increased by 20 per cent to about £6½ millions; and she reminded authorities that they needed no capital allocation for repairs and maintenance (such as repainting schools, patching walls or ceilings, repairing playgrounds) but should make provision for these in their estimates as usual.

New building could not yet be authorized solely for reorganizing all-age schools, but the increasing number of new schools that had come into use had greatly reduced the number of children in them. The figures for 11-year-old children in all-age schools had come down from more than 420,000 in January, 1946, to less than 296,000 in January, 1953; the number of children of 13-14 years had been more than halved: from 9,572 to 4,588.

In a reference to local authority awards to universities, the Minister said that 118 of the 146 local education authorities had adopted her proposal that passes in two subjects at advanced level in the General Certificate of Education, together with evidence of general education, should be regarded as the appropriate minimum standard for a local award. 132 authorities had accepted her suggestion that the rate of grant for local awards should be the same as those for State Scholarships. In each case, the remaining authorities will be reconsidering their arrangements.

## Mr. F. G. West's Appointment

Mr. F. G. West, A.R.I.B.A., at present second-in-command in the Schools Division of the L.C.C.'s Architect's Department, is to be appointed Senior Architect, General Division, on the retirement of Mr. W. J. Durnford, F.R.I.B.A., at the end of January, 1954. The salary scale (of which Mr. West will be at the maximum) is £1,650 rising by £100 annually to £1,950.

To Mr. West must go a large share of the responsibility for the development of the Schools Division which he joined on December 1, 1950, before which he was one of the six Area Architects in the service of the Middlesex County Council. He had been in private practice—as articled pupil and as a qualified assistant—for 9 years before entering the Middlesex County Architect's Department in 1937. Mr. West is 43 years of age. During the war he served as a major in the Royal Engineers.

## The Silver Jubilee

# BUILDING EXHIBITION

## Guide to Olympia

November 18—December 2

THE exhibition will be officially opened at 12 noon on Wednesday, November 18 by the Minister of Housing and Local Government, the Right Honourable Harold Macmillan, M.P. The President of the R.I.B.A., Mr. Howard Robertson, M.C., A.R.A., S.A.D.G., will be in the chair. A vote of thanks is to be proposed by Mr. Wilfred Horsfall, President of the N.F.B.T.E., Sir Luke Fawcett, immediate past president of the N.F.B.T.E., will second the motion. The Exhibition will be open to the public from ten o'clock in the morning, the same day.

★ ★ ★

The R.I.B.A. Clubroom is over the Addison Road entrance, the same position as last time.

★ ★ ★

The President of the N.F.B.T.E., Mr. Wilfred Horsfall, will be "at home" to members and their friends on the Federation's stand, Nos. 478-482 in the Grand Hall Gallery, on Tuesday, November 24, from 2.30 p.m.

★ ★ ★

The President of the L.M.B.A., Mr. Gerald Hill, with Mrs. Hill, will be "at home" to members of the L.M.B.A. and of the National Federation in the Clubroom to the right of the Addison Road entrance at 3 o'clock on Wednesday, November 18. The Club on that day will be "manned" by Mr. Gerald Hill's own area, Central Area No. 5.

Other L.M.B.A. Area Days are given in the right hand column.

★ ★ ★

The Architects Benevolent Society stand has been presented by Mrs. M. A. Montgomery, and, as is usual, its primary concern is to raise money for the General Fund. This is being done by the sale of some specially designed Christmas cards, some serious, some not, and some suitable for children. Also on sale is "The Architect's aid," a table designed and presented by Richard Henniker, F.R.I.B.A., for rapidly computing floor areas without having to rely on one's arithmetic; it costs 5s. The practice of architects presenting their own paintings for sale has been continued, and one can also buy tickets for the A.B.S. Ball, held in aid of the scheme for providing homes.

★ ★ ★

The following Government Departments are exhibiting : British Railways, Stand 397Z/E ; H.M.S.O., 451/GG, Ministry of Fuel and Power, 401, 402/GG ; M.H.L.G., 453, 455/GG ; M.O.W., 445-449/GG.

The department of Scientific and Industrial Research stand is divided between the Fire Research Station and the Building Research Station. A variety of subjects will be covered, including a demonstration of the measurement of the fire-resistance of materials, with particular emphasis on the behaviour of prestressed concrete, the measurement of dampness with reference to the application of finishes to new structures, and a demonstration of tests on various materials and building methods. The stands are Nos. 448-450, 454-456, in the Grand Hall Gallery.



Mrs. M. A. Montgomery, Managing Director of the Building Trades Exhibition Ltd. Mrs. Montgomery, who has been a director of the firm since 1947, is a daughter-in-law of the late H. G. Montgomery who, with his brother, the late H. C. Montgomery, founded the business with the first Building Exhibition in 1895.

★

Two special issues of *The Architect and Building News* will be on sale during the Exhibition at the A. & B.N. stand, No. 145 in the Grand Hall. The issue of November 19 will contain a report of exhibits and stands. A review of the Exhibition by a team of specialists will be a feature of issue November 26.

★

Metropolis Garages Ltd. of Maclese Road, Olympia, London, W.14, telephone number Shepherds Bush 5385-6-7, are Olympia's official garage—car season tickets at reduced prices are issued for the convenience of Exhibitors and other persons using this garage regularly in connection with the Exhibition who desire the facility of re-admission, overnight garage, etc. The Car Season Ticket guarantees admission at any time and covers day and night garage if required.

★

Hotel Accommodation Service — HOTAC—represent all London Hotels with the exception of the Lyons Group, and handle advance reservations and immediate bookings of accommodation. Applications for reservations should be made to 93, Baker Street, London, W.1, telephone number Welbeck 2555.

★

This year the facilities at Olympia will include a Reception Room and Lounge available to all visitors.

★

L.M.B.A. Area Days following Central Area No. 5 on November 18 are as follows : North-Western Area, Thursday, November 19 ; South-Western Area, Friday, November 20 ; Central Area No. 3, Monday, November 23 ; South-Eastern Area, Tuesday, November 24 ; Central Area No. 4, Wednesday, November 25 ; Central Area No. 1, Thursday, November 26 ; Southern Area, Friday, November 27 ; Northern Area, Monday, November 30 ; North-Eastern Area, Tuesday, December 1 ; Central Area No. 2, Wednesday, December 2.

## ALPHABETICAL LIST OF EXHIBITORS

This alphabetical list with stand references relates to the plans of the exhibition shown on pages 564, 565 and 566. The stand number is followed by the row letter and the initial of the hall in which the stand may be found, the suffix G indicates that the stand is in the gallery, e.g., 63 G/G is Stand No. 63, row G, Grand Hall; 406 /GG, Stand No. 406, Grand Hall Gallery. /N—National Hall, /NG—National Hall Gallery, /E—Empire Hall and /EG—Empire Hall Gallery.

## A

- A. B. C. D. (Raynes Park) Ltd.—275 N/N  
 A.B. Mould & Construction Co. Ltd.—163 G/G  
 A.C.E. Machinery Ltd.—283, 284 O/N  
 Accrington Brick & Tile Co. Ltd.—158 G/G  
 Acme Flooring & Paving Co. (1904) Ltd.—  
 418 & 420 /GG  
 Acrow (Engineers) Ltd.—107, 108, 109 E/G  
 Adam & Harvey (Rapid Hammers) Ltd.—  
 319 R/N  
 Adamsite Co. Ltd.—537 /NG  
 Adamsez Ltd.—180 H/G, 205 J/G  
 Aero Research.—653 /EG  
 Aga Heat Ltd.—5, 6 A/G  
 Aidas Electric Ltd.—79 D/G  
 Air Pumps Ltd.—379 X/E  
 Airscrew Co. & Jicwood Ltd.—548 NG  
 Alabastine Co. (British) Ltd.—280 O/N  
 All Purpose Building Co. Ltd.—621 /EG  
 Allam, E. P., & Co. Ltd.—325 R/N  
 Allied Ironfounders Ltd.—636, 637 /EG  
 Anderson, D., & Son Ltd.—129 F/G  
 Anselm Odling & Sons Ltd.—137 F/G  
 Architect & Building News—145, G/G  
 Architects Classifile Ltd.—252 L/G  
 Architects Benevolent Society—406 /GG  
 Architectural Press Ltd.—355 T/N  
 Armstrong Cork Co. Ltd.—46 C/G  
 Artificial Stone & Concrete Co. Ltd.—434  
 /GG  
 Ascot Gas Water Heaters Ltd.—272 N/N  
 Ashdowns Ltd.—488, 490 /GG  
 Association of Building Technicians—603  
 EG  
 Association of Vermiculite Exfoliators—  
 545 /NG  
 Atomic Draught Sealing Co.—477 /GG  
 Austin & Trimingham—517 /NG  
 Aveling-Barford Ltd.—217 K/G  
 Avery, J., & Co. (Est. 1834) Ltd.—414 /GG  
 Avon India Rubber Co. Ltd.—338 S/N

## B

- Barrmor Tool Works Ltd.—399 Z/E  
 B.A.S.A. Rowing Club—536 /NG  
 Bath & Portland Stone Firms Ltd.—42 C/G  
 Bellrock Gypsum Industries Ltd.—347 T/N,  
 638, 639 /EG  
 Benford Ltd.—71, 72 D/G  
 Benn Brothers Ltd.—7 A/G  
 Bennett, S., & Son (Wood Flooring) Ltd.—  
 461, 463 /GG  
 Bentley & Garforth.—360 U/E  
 Benton, Edward, & Co. Ltd.—408 /GG  
 Berend & Berend Ltd.—65 C/G, 357 Port-  
 cullis Avenue  
 Beresford, James, & Son Ltd.—262, 263 M/N  
 Berger, Lewis (G.B.) Ltd.—311 Q/N  
 Berkhamsted Brick Co. Ltd.—58 C/G  
 Berry, J., & Sons Ltd.—413 /GG  
 Berry Wiggins & Co. Ltd.—416 /GG  
 Binns, A. J., Ltd.—262, 263 M/A  
 Bitumen Industries Ltd.—1 A/G  
 Blundell Spence & Co. Ltd.—339, 340 S/N  
 Bolton Gate Co. Ltd.—184 H/G, 201 J/G  
 Books & Careers.—519 /NG  
 Bourner, S. H., & Co. (Engineers) Ltd.—  
 567 N/G  
 Braby, Fred'k., & Co. Ltd.—229 K/G  
 Bridges, S. N., & Co. Ltd.—323 R/N  
 Briggs, William, & Sons Ltd.—32, 33 B/G  
 British Art Tile Co. Ltd.—270A N/N  
 British Building & Engineering Appliances  
 Ltd.—164, 165 G/G

- British Congoleum Ltd.—442, 444 /GG  
 British Electrical Development Assn.—  
 103, 104 E/G  
 British Equipment Co. Ltd.—210 J/G,  
 175 H/G  
 British Gates.—521, 523 /NG  
 British Hermeseal Ltd.—648 /EG  
 British Hoist & Crane Co. Ltd.—111 E/G  
 British Iron & Steel Federation.—508, 510,  
 512 /NG  
 British National Electrics Ltd.—381, 382 X/E  
 British Plaster Board.—94 E/G  
 British Plumber Ltd.—178 H/G, 207 J/G  
 British Standards Institution.—475 /GG  
 British Railways.—397 Z/E  
 British Rubber Development Board.—34 B/G  
 Briton Brush Co. Ltd.—353 T/N  
 Brookman, R. S., Ltd.—390 Y/E  
 Brown Clements Productions Ltd.—649 /EG  
 Brush Abco Group Services Ltd.  
 Brush Group.—312, 313 Q/N  
 Bryce White Co. Ltd.—93 E/G  
 B.S.A. Motorcycles Ltd.—542 /NG  
 Builder, The, Ltd.—141 G/G, 620 /EG  
 Building Crafts Training School.—531, 533  
 /NG  
 Building Industries and Scottish Architect.—  
 234 K/G  
 Building Industry Distributors.—528, 530  
 /NG  
 Burgess Products Co. Ltd.—642 /EG  
 Burtaun Ltd.—15 A/G  
 Byrd, A. A., & Co. Ltd.—343 S/N, 349 T/N

## C

- Cafferata & Co. Ltd.—38 B/G  
 Calders Ltd.—330 R/N  
 Callow & Keppich Ltd.—281 O/N  
 Candy & Co. Ltd.—138 F/G  
 Cape Asbestos Co. Ltd.—261 M/N  
 Carnor Ltd.—167 H/G  
 Carpenters Co.—531, 533 /NG  
 Carter Group of Companies.—85 D/G  
 Cascelloid Ltd.—551 /NG  
 Caxton Publishing Co. Ltd.—483 /GG  
 Cayless Bros. (Battersea) Ltd.—17, 18 B/G  
 C.D. Productions Ltd.—656 /EG  
 Cellactite & British Uralite Ltd.—245 L/G  
 Celotex Ltd.—30 B/G  
 Cement & Concrete Assn.—302 P/N  
 Cement Marketing Co. Ltd.—130 F/G  
 Central Tool & Equipment Co. Ltd.—  
 422 GG  
 Chadwick & Shapcott Ltd.—190 H/G, 195 J/G  
 Chamberlain Weatherstrips Ltd.—464 /GG  
 Chance Bros. Ltd.—186 H/G, 199 J/G  
 Chaseside Engineering Co. Ltd.—171 H/G  
 Cheecol Processes Ltd.—565 /NG  
 Chubb & Sons' Lock & Safe Co. Ltd.—8 A/G  
 Churchill H. & D., Ltd.—385 X/E  
 Cimex-Fraser Tuson Ltd.—185 H/G, 200 J/G  
 Clarke Ellard Engineering Co. Ltd.—498  
 /GG  
 Coal Utilisation Council.—260 M/N  
 Cole, E. K., Ltd.—524 /NG  
 Cole, E. R., Ltd.—435 GG  
 Colt, W. H. (London) Ltd.—232 K/G  
 Colthurst, Symons & Co. Ltd.—84 D/G  
 Columbus-Dixon Organisation.—105 E/G  
 Compactom Ltd.—538, 540 /NG  
 Concrete Ltd.—623 /EG  
 Condrup Ltd.—535 /NG  
 Conex-Terna Ltd.—75 D/G  
 Consolidated Pneumatic Tool Co. Ltd.—  
 215, 216 K/G

- Cooke, John, & Son Ltd.—532 /NG  
 Cooksley, A., & Co. Ltd.—384 X/E  
 Copperad Ltd.—124 F/G  
 Copper Development Ass'n.—307 Q/N  
 Coronet Tool Co.—651 /EG  
 Costain Concrete Co. Ltd.—314, 315 Q/N  
 Craig & Rose Ltd.—380 X/E  
 Crane Ltd.—268 N/N  
 Creffield, C. V. & Co. Ltd.—428 /GG  
 Crittall Manufacturing Co. Ltd.—98 E/G  
 Crockatt, W., & Sons Ltd.—550 /NG  
 Cuprinol Ltd.—335 S/N

## D

- Dallow & Lambert & Co. Ltd.—372 W/E  
 Dananara Ltd.—547, 549 /NG  
 Danekaarts Woodworking Machinery Ltd.—  
 396 Y/E  
 Dandridge, Arthur, F., Ltd.—443 /GG  
 Deaves, R. J.—415 /G.G., 541 /NG  
 Department of Scientific & Industrial  
 Research.—448, 450, 454, 456 /GG  
 Dimplex Ltd.—481 /GG  
 Dixon Hawkesworth Ltd.—395 Y/E  
 Dohm Ltd.—52 C/G  
 Dominion Machinery Ltd.—362 V/E  
 Downing, G. H., & Co. Ltd.—152, 153 G/G  
 Drew, Clark & Co. Ltd.—48 C/G  
 Durasteel Ltd.—316 Q/N  
 Duresco Products Ltd.—239 L/G

## E

- Easicleone Porcelain Enamel (1938) Ltd.—  
 177 H/G, 208 /G  
 Eastwoods Ltd.—154 G/G  
 Eclipse Rail-Track Ladder Co. Ltd.—123 F/G  
 Econa Modern Products Ltd.—25 B/G  
 Economic Water Softeners Ltd.—24 B/G  
 Edison Swan Electric Co. Ltd.—386 X/E  
 Ellis, John, & Sons Ltd.—285 O/N  
 Ely & Gibbons Ltd.—50 C/G  
 English Clock Systems Ltd.—155 G/G  
 English Joinery Manufacturers Ass'n.—142  
 G/G  
 Esavian Ltd.—40 B/G  
 Eustace & Partners Ltd.—61 C/G  
 Expanded Metal Co. Ltd.—95 E/G  
 Expandise Ltd.—225 K/G

## F

- Federated Employers Press Ltd.—4 A/G  
 Federation of Clinker Block Manufacturers.—  
 409 /GG  
 Federation of Master Builders.—432 /GG  
 Ferguson, Harry, Ltd.—378 X/E  
 Ferodo Ltd.—55 C/G  
 Fibreglass Ltd.—241 L/G  
 Finch, B., & Co. Ltd.—12, 13, 14 A/G  
 Finlock Gutters Ltd.—354 T/N  
 Fire Protection Association.—407 /GG  
 Fishburn, L.—543 /NG  
 Fisons Ltd.—54 C/G  
 Flavel, Sidney, & Co. Ltd.—266 N/N  
 Flexaire Ltd.—143 G/G  
 Flexible Drive & Tool Co. Ltd.—214 K/G  
 Flextol Engineering Co. Ltd.—35 B/G  
 Forsters Machine Co. Ltd.—465, 467 /GG  
 Frenger Ceilings Ltd.—529 /NG  
 Froy, W. N., & Sons Ltd.—304, 305 Q/N  
 Furniss & Co.—534 /NG

## G

- Gardiner, Sons, & Co. Ltd.—89 D/G  
 Gas Council.—300 P/N

**G.** & L. Machinery Ltd.—394 Y/E  
 Gill's Engineers Ltd.—612, 613, 614 /EG  
 Gliksten, J., & Son Ltd.—144 G/G  
 Goodenough Contractors' Machinery Ltd.—  
 321, 322 R/N  
 Goodlass, Wall & Co. Ltd.—492, 494 /GG  
 Gotham Co. Ltd.—273 N/N  
 Grangersol Ltd.—479 /GG  
 Greenwood's & Airvac Ventilating Co. Ltd.  
 —192 H/G  
 Greenwood & Hughes Ltd.—194 J/G  
 Grey, Charles C.—647 /EG  
 Guiterman, S., & Co. Ltd.—168 H/G  
 Gulf Radiators Ltd.—244 L/G  
 Guyrex Equipment Ltd.—391 Y/E  
 Gyproc Products Ltd.—149 G/G  
 Gypsum Mines Ltd.—336 S/N

**H**  
 Hadfields (Merton) Ltd.—49 C/G  
 Hamilton & Co. (London) Ltd.—346 T/N  
 Harvey, G. A. & Co. (London) Ltd.—  
 150, 151 G/G  
 Haycraft, M. & L., Ltd.—563 /NG  
 Heat Pump.—401, 402 /GG  
 Heller & Sons (Engineers) Ltd.—560 /NG  
 Hemel Hempstead Engineering Co. Ltd.—  
 253 L/G  
 Hesketh Gordon Ltd.—278 N/N  
 Heyman, B.—437 /GG  
 Heywood, W. H. & Co. Ltd.—484, 486 /GG  
 Hickson's Timber Impregnation Co. (G.B.)  
 Ltd.—156 G/G  
 Highways Construction Ltd.—56 C/G  
 Hilger & Watts Ltd.—553 /NG  
 Hill, E., Aldam & Co. Ltd.—327, 328 R/N  
 Hilmor Ltd.—23 B/G  
 H.M.S.O.—451 /GG  
 Holcon Ltd.—47 C/G  
 Holloway Metal Roofs Ltd.—462 /GG  
 Holoplast Ltd.—615 /EG  
 Hope, Henry & Sons Ltd.—90, 91 D/G  
 Houghton Engineers Ltd.—358 U/E  
 Housing Centre—539 /NG

**I**  
 Ide, T. & W., Ltd.—287 O/N  
 Ideal Boilers & Radiators.—310 Q/N  
 Illustrated Carpenter & Builder.—352 T/N  
 Imperial Chemical Industries Ltd.—86, 87  
 D/G  
 Impregnated Diamond Products Ltd.—377  
 X/E  
 Interoven Stove Co. Ltd.—9 A/G  
 Interwood Ltd.—389 Y/E  
 Institute of Quantity Surveyors.—440 /GG  
 Institute of Registered Architects.—546  
 /NG

**J**  
 Janitor Boilers Ltd.—247 L/G  
 Jenolite Ltd.—436 /GG  
 Jenson & Nicholson Ltd.—329 R/N  
 Johnson, G., Bros. Ltd.—125 F/G  
 Johnson's Reinforced Concrete Engineering  
 Co. Ltd.—45 C/G  
 Joyce, W. N., & Sons Ltd.—243 L/G

**K**  
 Kango Electric Hammers Ltd.—179 H/G,  
 206 J/G  
 "Kemeny"—607 /EG  
 Kennedy, W. Ltd.—233 K/G  
 Kerner-Greenwood & Co. Ltd.—337 S/N  
 Key Engineering Ltd.—69 D/G  
 Kine Engineering Co. Ltd.—392 Y/E  
 King, J. A. & Co. Ltd.—134 F/G  
 King's Langley Engineering Co. Ltd.—  
 410 GG  
 Kwikform Ltd.—119, 120 F/G

**L**  
 Labour News, Public Works & Bldg.  
 Weekly.—16 A/G  
 Lafarge Aluminous Cement Co. Ltd.—  
 78 D/G  
 Langham Export Co. Ltd.—166 H/G  
 Langley London Ltd.—132 F/G

Langton, H. S., Ltd.—254 L/G  
 Lata Doors & Products Ltd.—654 EG  
 Latter, A., & Co. Ltd.—561 NG  
 Lawler, Ayres & Co. Ltd.—279 O/N, 430 /GG  
 Lead Industries Development Council.—  
 189 H/G, 196 J/G

Leaderflush Ltd.—26, 27 B/G  
 Leeds Fireclay Co. Ltd.—227, 228 K/G  
 Leeteer Ltd.—644 EG  
 Leng, Christopher & Sons Ltd.—53 C/G  
 Levene, William Ltd.—643 EG  
 Limmer & Trinidad Lake Asphalt Co. Ltd.—  
 128 F/G  
 Liner Concrete Machinery Co. Ltd.—271  
 N/N  
 Linoleum Manufacturers Association.—640,  
 641 /EG  
 Lion Stamping Co. Ltd.—544 N/G  
 Liotex Asbestos Flooring Co. Ltd.—424 /GG  
 Lister, R. A. & Co. Ltd.—172, 173 H/G,  
 212, 213 J/G  
 Lloyds Bank Ltd.—140 G/G  
 Loft Ladders Ltd.—495 /GG  
 London Brick Co. Ltd.—97 E/G  
 London & Midland Steel Scaffolding Co. Ltd.  
 159 G/G  
 London Sand Blast Decorative Glass Works  
 Ltd.—148 G/G  
 Lyon, Arthur & Co. (Engineers) Ltd.—  
 73, 74 D/G  
 Lyte Ladders Ltd.—19 B/G

**M**  
 Machinery (Continental) Ltd.—256 L/G  
 Mallinson, Wm. & Sons Ltd.—100 E/G  
 Marks, Leslie & Co. Ltd.—473 GG  
 Marley Tile Co. Ltd.—181, 182 H/G, 203,  
 204 J/G  
 Marshall G. E. & Co. Ltd.—555 /NG  
 Masonite Ltd.—187 H/G, 198 J/G  
 Maycrete Ltd.—630, 631 /EG  
 Medway Buildings & Supplies Ltd.—112 E/G  
 M.E. Engineering Ltd.—62 C/G  
 Metal Sections Ltd.—147 G/G  
 Meta Mica Ltd.—10 A/G  
 Metapsrys Ltd.—554 NG  
 Meyer, Montague L. Ltd.—306 Q/N  
 Midland Bank Ltd.—257 M/N  
 Midland Saw & Tool Co. Ltd.—376 X/E  
 Millars' Machinery Co. Ltd.—258, 259 M/N  
 Mills Scaffold Co. Ltd.—121, 122 F/G  
 Milners Safe Co. Ltd.—331 S/N  
 Ministry of Works, The.—445, 447, 449 /GG  
 M.O.H.L.G.—453, 455 /GG  
 Molesey Sheet Metal Works.—652 EG  
 Moulded Components (Jablo) Ltd.—522 NG  
 Mundet Cork Products Ltd.—412 /GG  
 Municipal Journal Ltd., The—419 GG  
 Munster Chemical Co.—557 NG  
 Myko Floors, Ltd.—434 /GG

**N**  
 Bairn, M. & Co. Ltd.—442, 444 /GG  
 Nash, H. R. Ltd.—267 N/N  
 National Coal Board.—110 E/G  
 National Federation of Building Trades  
 Employers.—478, 480, 482 /GG  
 National Federation of Clay Industries—  
 88 D/G  
 National Flooring Co. Ltd.—231 K/G  
 National Provincial Bank Ltd.—393 Y/E  
 Natural Asphaltic Mine-Owners & Manu-  
 facturers Council.—39 B/G  
 Neal, R. H. & Co. Ltd.—387, 388 Y/E  
 Nevastane Products.—274 N/N  
 New Era Publishing Co. Ltd.—20 B/G  
 Newsum, H. Sons & Co. Ltd.—446 /GG  
 Noelite Ltd.—188 H/G  
 Norton's Plant Hire.—64 C/G  
 Nuflor Ltd.—197 J/G  
 Nuralite Sales Ltd.—248, 249 L/G

**O**  
 Official Architecture & Planning.—350 T/N  
 Oliver, William & Sons Ltd.—139 F/G  
 Orlit Ltd.—600, 601, 602 EG  
 Osman, Wm.—469, 471 /GG

**P**  
 Packard & Ord Ltd.—457 /GG  
 Palmers Travelling Cradle & Scaffold Co.  
 Ltd.—174 H/G, 211 J/G  
 Panel Parquetry Ltd.—655 /EG  
 Panelwood Ltd.—493 /GG  
 Parker, Frederick Ltd.—296, 297 P/N  
 Parry & Son Tools, Ltd.—423 /GG  
 Parsons, Thos. & Sons Ltd.—96 E/G  
 Pearl Varnish Co. Ltd.—558 /NG  
 Peerless Built-in Furniture Ltd.—41 B/G  
 Peglers Ltd.—102 E/G  
 Pegson Ltd.—59 C/G  
 Penfold Fencing & Engineering Ltd.—44 C/G  
 Pernacem Paint Co. Ltd.—565 /NG  
 Pestcure Ltd.—405 /GG  
 Philips Electrical Ltd.—320 R/N  
 Philip Flooring Co. Ltd.—470 /GG  
 Philplug Products Ltd.—220 K/G  
 Pickles, John & Son (Engineers) Ltd.—  
 368 V/E, 369 W/E  
 Pilkington Bros. Ltd.—133 F/G  
 Pioneer Mixers Ltd.—345 S/N  
 "Prefabrication".—626, 627 /EG  
 Prestressed Concrete Development Group  
 500, 501, 502, 503, 504, 505, 506 /NG  
 Price, D. W. & Sons Ltd.—351 T/N  
 Pritchard, R. W. (Mfg.) Ltd.—496 /GG  
 Prowse, Keith & Co. Ltd.—236 L/G  
 Pyrene Co. Ltd., The—497, 499 /GG  
 Pyrock Ltd.—31 B/G

**Q**  
 Quickdraw Co. Ltd.—559 /NG

**R**  
 Radiation Group Sales Ltd.—264 M/N  
 Randall, Wm. & Co. (Slinfoeld) Ltd.—106  
 E/G  
 Range Boilers Ltd.—269 N/N  
 Rapid Metal Developments Ltd.—114, 115  
 F/G  
 Rawlings Bros. Ltd.—58 C/G  
 Rawiplug Co. Ltd., The—242 L/G  
 Redhill Tile Co. Ltd.—99 E/G  
 Redwing Ltd.—476 /GG  
 Reed, A. Elder & Co. Ltd.—157 G/G  
 Remington Rand Ltd.—438 /GG  
 Rentokil Ltd.—400 /GG  
 Revol Ltd.—303 Q/N  
 Rhodes Chains Ltd.—193 J/G  
 Road Machines (Drayton) Ltd.—282 O/N,  
 356 Portcullis Avenue  
 Roberts, David & Co. (Engrs.) Ltd.—68 D/G  
 Robinson, Thomas & Son Ltd.—367 V/E,  
 370 W/E  
 Ronald, S. W. & Co. (London) Ltd.—468 /GG  
 Roura & Forgas Ltd.—255 L/G  
 Rowe Brothers & Co. Ltd.—485, 487 /GG  
 Royal Institution of Chartered Surveyors—  
 518, 520 /NG  
 Ruberoid Co. Ltd.—308, 309 Q/N  
 Ruddick, Harold G. & Co. Ltd.—515 NG  
 Russell, Macdonald & Co. Ltd.—246 L/G  
 Rye Engineering Works (High Wycombe)  
 Ltd.—383 X/E

**S**  
 Sagar (Developments) Ltd.—358 U/E  
 Sagar, J. & Co. Ltd.—366 V/E, 371 W/E  
 Safety Tread Ltd.—606 /EG  
 Sale Tilney (Agricultural & Industrial) Ltd.—  
 645, 646 EG  
 Sal-Ferricite & Trading Co. Ltd.—37 B/G  
 Sand Lime Brick Mfgs. Association.—57 C/G  
 Sankey, Joseph & Sons Ltd.—51 C/G  
 Saunders, H. A. Ltd.—116, 117 F/G  
 Scaffolding (G.B.) Ltd.—126, 127 F/G, 452 /GG  
 Schubert, H. Ltd.—363 V/E, 374 W/E  
 Sealdraught Ltd.—552 /NG  
 Sealcrete Products Ltd.—191 H/G  
 Secomastic Ltd.—2, 3 A/G  
 Semtex Ltd.—101 E/G  
 Shaftesbury Ladders Ltd.—21, 22 B/G  
 Shapland & Petter Ltd., Successors to—  
 333 S/N  
 Sharp Bros. & Knight Ltd.—293 P/N  
 Sharpe, Richard Studios, Ltd.—608 /EG

Shaw, A. & Son (Diamonds) Ltd.—459 /GG  
 Shetack Tool Works Ltd.—344 S/N  
 Shires & Co. (London) Ltd.—276, 277 N,N  
 Sika Ltd.—221 K/G  
 Silexine Paints Ltd.—43 C/G  
 Simms, W. J. Sons & Cooke Ltd.—632, 633  
 634, 635 /EG  
 Simpson, W. B. & Sons Ltd.—458 /GG  
 Skarsten Manufacturing Co. Ltd.—429 /GG  
 Slingsby, H. C. Ltd.—235 K/G  
 S.M.D. Engineers.—342 S/N  
 Smith, D. F. & Co. Ltd.—513 /NG  
 Smith, John & Co. (London) Ltd.—63 C/G  
 Smith & Wellstood Ltd.—292 P/N  
 Smith's Fireproof Floors Ltd.—294, 295 P/N  
 Society for the Protection of Ancient  
 Buildings, The—507 /NG  
 Solid Smokeless Fuels Federation.—265 N/N  
 Sommerfelds Ltd.—113 E/G  
 Sondheimer, M., Sondal Works Ltd.—  
 411 /GG  
 South Eastern Brick & Tile Federation.—92  
 E/G  
 Sponcel Ltd.—404 /GG  
 Staines Kitchen Equipment Co. Ltd.—60  
 C/G  
 Standard Catalogue Co. Ltd.—224 K/G  
 Stanley, W. F. & Co. Ltd.—341 S/N  
 Steel Radiators Ltd.—301 P/N  
 Steel Scaffolding Co. Ltd.—76, 77 D/G  
 Stenners of Tiverton Ltd.—365 V/E  
 Stephens & Carter Ltd.—326 R/N  
 Sterling Foundry Specialties Ltd.—70 D/G  
 Steventon, John & Sons Ltd.—222, 223 K/G  
 Stewarts & Lloyds Ltd.—324 R/N  
 Stopper Manufacturing Co. Ltd.—403 /GG  
 Stoother & Pitt Ltd.—288, 289 O/N  
 Stramit Boards Ltd.—237, 238 L/G  
 Stroud Bros. Ltd.—609, 610 /EG  
 Surfex Flooring Co. & Liquitile Supply Co.  
 —556 /NG  
 Sussex & Dorking United Brick Co.'s Ltd.—  
 135, 136 F/G  
 Sussex Cement & Concrete Products—  
 511 /NG

**T**  
 Taylor, Robert & Co. (Ironfounders Ltd.)—  
 286 O/N  
 Teles Smith Ltd.—514, 516 /NG  
 Tella Co. Ltd.—611 /EG  
 Templer, C. G. & Co. Ltd.—202 J/G  
 Thames Board Mills Ltd.—525, 527 /NG  
 Thermacoust Co. Ltd.—89 D/G  
 Thermalite Ltd.—240 L/G  
 Thompson, John Beacon Windows Ltd.—  
 298 P/N  
 Thwaites Agricultural Engineering Co. Ltd.—  
 66 C/G  
 Timber Development Association.—299 P/N  
 Tong, M. P. & Co. Ltd.—555a /NG  
 Torrance & Sons.—288, 289 O/N  
 Treed Ltd.—604, 605 /EG  
 Tretol Ltd.—230 K/G  
 Trianco Ltd.—290, 291 O/N, 294, 295 P/N  
 Triplex Foundry Ltd.—270 N/N  
 True Flue Ltd.—II A/G  
 Tubela Engineering Co. Ltd.—466 /GG  
 Tubewrights Ltd.—324 R/N  
 Turner, Charles & Sons Ltd.—131 F/G  
 Turners Asbestos Cement Co. Ltd.—  
 28, 29 B/G  
 Twisteel Reinforcements Ltd.—80 D/G  
 Tyre Products Ltd.—509 /NG  
 Tyzack, S. & Son Ltd.—425, 427 /GG

**U**  
 Union Glue & Gelatine Co. Ltd.—36 B/G  
 Unique Balance Co. Ltd.—474 /GG  
 United Sponge Co. Ltd.—417 /GG  
 Ure, Allan Ltd.—250 L/G

**V**  
 Venetian Vogue Ltd.—317 Q/N  
 Victory Valves Ltd.—433 /GG  
 Vigers, A. Sons & Co. Ltd.—183 H/G  
 Vinatex Ltd.—334 S/N  
 Vitreflex Ltd.—318 Q/N

**W**  
 Worlspray Ltd.—421 /GG  
 Vulcan Manufacturing Co. (Wolverhampton)  
 Ltd.—439, 441 /GG

**X**  
 Ward, Thos. W. Ltd.—170 H/G  
 Ward's Flexible Rod Co. Ltd.—251 L/G  
 Warerite Ltd.—81 D/G  
 Warry Patent Building Equipment Co.  
 Ltd.—67 D/G  
 Warsop Power Tools Ltd.—219 K/G  
 Watts (Factors) Ltd.—332 S/N  
 Waverley Book Co. Ltd.—460 /GG  
 Weatherill, F. E. Ltd.—162 G/G  
 Westland Engineers Ltd.—472 /GG  
 Westminster Abbey—431 /GG  
 White, Thos. & Sons Ltd.—364 V/E, 373 W/E  
 Whitehill Spindle Tools Ltd.—398 Z/E  
 Whitlock Bros. Ltd.—118 F/G  
 Wickham Engineering Co. Ltd.—160, 161  
 G/G  
 Wild, Thos. C. (Machinery) Ltd.—657 /EG  
 and Outside Site  
 Williams, John & Sons (Cardiff) Ltd.—226  
 K/G  
 Williams & Williams Ltd.—83 D/G  
 Wilson Bros. (Leeds) Ltd.—375 W/E  
 Witlor Ltd.—169 H/G  
 Wolf Electric Tools Ltd.—489, 491 /GG  
 Woodworm & Dry Rot Control, Ltd.—  
 526 /NG  
 Woodworking Industries Ltd.—361 U/E

**Y**  
 Yorkshire Cooper Works Ltd.—146 G/G  
 Youngman, W. C. Ltd.—176 H/G, 209 J/G,  
 218 K/G

**Z**  
 Zinc Alloy Rust Proofing Co. Ltd.—348 T/N  
 Zinc Development Association.—82 D/G

## CLASSIFIED LIST OF EXHIBITS

The stands are identified in the same way as in the Alphabetical List of Exhibitors.

**Aluminium Products**  
 Briggs, William, & Sons Ltd.—32, 33  
 B/G  
 Crittall Manufacturing Co. Ltd.—98 E/G  
 Esavian Ltd.—40 B/G  
 Expanded Metal Co. Ltd.—95 E/G  
 Gardiner Sons & Co. Ltd.—89 D/G  
 Hope, Henry, & Sons Ltd.—90, 91 D/G  
 Imperial Chemical Industries Ltd.—  
 86, 87 D/G  
 Loft Ladders Ltd.—495 /DG  
 London Midland Steel Scaffolding Co.  
 Ltd.—159 G/G  
 Lyte Ladders Ltd.—199 B/G  
 S.M.D. Engineers Ltd.—342 S/N  
 John Thompson Beacon Windows Ltd.—  
 298 P/N

**Art Metal Works and Wrought  
 Iron Products**  
 Forsters Machine Co. Ltd.—465, 467 /GG  
 Johnson, G., Bros. Ltd.—125 F/G  
 Molesey Sheet Metal Works.—652 /EG  
 Scaffolding (G.B.) Ltd.—126, 127 F/G,  
 452 /GG

**Asbestos Products**  
 Cape Asbestos Co. Ltd.—261 M/N  
 Cellacte & British Uralite Ltd.—  
 245 L/G  
 Durasteel Ltd.—316 Q/N  
 Turners Asbestos Cement Co. Ltd.—  
 28, 29 B/G

**Asphalte**  
 Bitumen Industries Ltd.—1 A/G  
 Highways Construction Ltd.—56 C/G  
 Limmer & Trinidad Lake Asphalt Co.  
 Ltd.—128 F/G  
 National Flooring Co. Ltd.—231 K/G

**Associations and Organizations**  
 Association of Vermiculite Exfoliators  
 \$45 /NG  
 British Electrical Development Associa-  
 tion.—103, 104 E/G  
 British Iron & Steel Federation.—508  
 \$10, \$12 /NG

British Rubber Development Board.—  
 34 B/G  
 British Standards Institution.—475 /GG  
 Building Industry Distributors.—528  
 530 /NG  
 Cement & Concrete Association.—  
 302 P/N  
 Coal Utilisation Joint Council.—  
 260 M/N  
 Copper Development Association.—  
 307 Q/N  
 English Joinery Manufacturers' Associa-  
 tion (Incorporated).—142 G/G  
 Federation of Clinker Block Manu-  
 facturers.—409 /GG  
 Federation of Master Builders.—  
 432 /GG  
 Fire Protection Association.—407 /  
 Gas Council.—300 P/N  
 Housing Centre.—539 /NG  
 Institute of Quantity Surveyors.—  
 440 /GG  
 Institute of Registered Architects.—  
 541 /NG  
 Lead Industries Development Council.—  
 189 H/G, 196 /J/G  
 Linoleum Manufacturers Association.—  
 640, 641 /EG  
 National Federation of Building Trades  
 Employers.—478, 480, 482 /GG  
 National Federation of Clay Industries.—  
 88 D/G  
 Natural Asphaltic Mine-Owners &  
 Manufacturers Council.—39 B/G  
 Royal Institute of British Architects.—  
 Royal Institute of Chartered Surveyors.—  
 518, 520 /NG  
 Sand Lime Brick Manufacturers Associa-  
 tion Ltd.—57 C/G  
 Society of the Protection of Ancient  
 Buildings.—507 /NG  
 Solid Smokeless Fuels Federation.—  
 265 N/N  
 South Eastern Brick & Tile Federation.—  
 92 E/G  
 Timber Development Association Ltd.—  
 299 P/N

Worshipful Company of Carpenters.—  
 531, 533 /NG  
 Zinc Development Association.—82  
 D/G

**Banks**  
 Lloyds Bank Ltd.—140 G/G  
 Midland Bank Ltd.—257 M/N  
 National Provincial Bank Ltd.—393 Y/E

**Barrows, Ladders, etc.**  
 Braby, Fredk., & Co. Ltd.—229 K/G  
 Cayles Bros. (Battersea) Ltd.—17, 18  
 B/G  
 Drew, Clark & Co. Ltd.—48 C/G  
 Eclipse Rail-Track Ladder Co. Ltd.—  
 123 F/G  
 Eustace & Partners Ltd.—41 C/G  
 Langton, H. S.—254 L/G  
 Loft Ladders, Ltd.—399 /GG  
 Lyte Ladders Ltd.—199 B/G  
 M.E. Engineering Ltd.—42 C/G  
 Randall, Wm., & Co. (Horsham) Ltd.—  
 166 E/G  
 Shaftesbury Ladders Ltd.—21, 22 B/G  
 Slingsby, M. Co. Ltd.—235 K/G  
 Stephen & Carter, Ltd.—326 R/N  
 Warry Patent Building Equipment Co.  
 Ltd.—67 D/G  
 Wickham Engineering Co. Ltd.—160,  
 161 G/G  
 Youngman, W. C. Ltd.—176 H/G,  
 209 J/G, 218 K/G

**Bathroom Fittings**  
 Adams Ltd.—180 H/G, 205 J/G  
 Allied Ironfounders Ltd.—436, 637 /EG  
 Binns, A. J., Ltd.—262, 263 M/N  
 Bourner, S. H., & Co. (Engineers) Ltd.—  
 567 /NG  
 Dimplex Ltd.—481 /GG  
 Easicleene Porcelain-Enamel (1938) Ltd.—  
 177 H/G, 208 J/G  
 Finch, B., & Co. Ltd.—12, 13, 14 A/G  
 Froy, W. N., & Sons Ltd.—304, 305 Q/N  
 Gulf Radiators Ltd.—244 L/G  
 Ideal Boilers & Radiators Ltd.—310 Q/N

Peglers Ltd.—102 E/G  
 Pilkington Bros. Ltd.—133 F/G  
 Price, D. W., & Sons Ltd.—351 T/N  
 Steventon, John, & Sons Ltd.—222,  
 223 K/G, 422 /GG

**Bending Machinery**  
 Acrow (Engineers) Ltd.—107, 108,  
 109 E/G, 426 /GG  
 Hilmore Ltd.—233 B/G  
 Kennedy, W. Ltd.—233 K/G  
 Lawler, Ayres & Co. Ltd.—279 O/N,  
 430 /GG  
 Tubela Engineering Co. Ltd.—466 /GG

**Boilers, Ranges, Stoves, Grates,  
 Radiators and Accessories**  
 Aga Heat Ltd.—8, 6 A/G  
 Aidas Electric Ltd.—79 D/G  
 Allied Ironfounders Ltd.—436, 637 /EG  
 Crane Ltd.—248 N/N  
 Dimplex Ltd.—481 /GG  
 Ely & Gibbons Ltd.—50 C/G  
 Flavel, Sidney & Co., Ltd.—266 N/N  
 Flexaire, Ltd.—143 G/G  
 Froy, W. N., & Sons Ltd.—304, 305 Q/N  
 Gulf Radiators, Ltd.—244 L/G  
 Hemel Hempstead Engineering Co.  
 Ltd.—233 L/G  
 Ideal Boilers & Radiators Ltd.—310 Q/N  
 Interoven Stove Co., Ltd.—9 A/G  
 Janitor Boilers, Ltd.—247 L/G  
 Lion Stamping Co. Ltd.—544 /NG  
 Radiation Group Sales Ltd.—364 M/N  
 Range Boilers, Ltd.—269 N/N  
 Shires & Co. (London) Ltd.—276, 277  
 N/N  
 Smith & Wellstood, Ltd.—292 P/N  
 Steel Radiators, Ltd.—301 P/N  
 Taylor, Robert & Co. (Ironfounders)  
 Ltd.—286 O/N  
 Torrance & Sons, Ltd.—288, 289 O/N,  
 294, 295 P/N  
 Triplex Foundry, Ltd.—270 N/N  
 True Flue, Ltd.—II A/G  
 Ure, Allan, Ltd.—250 L/G  
 Watts (Factors) Ltd.—332 S/N

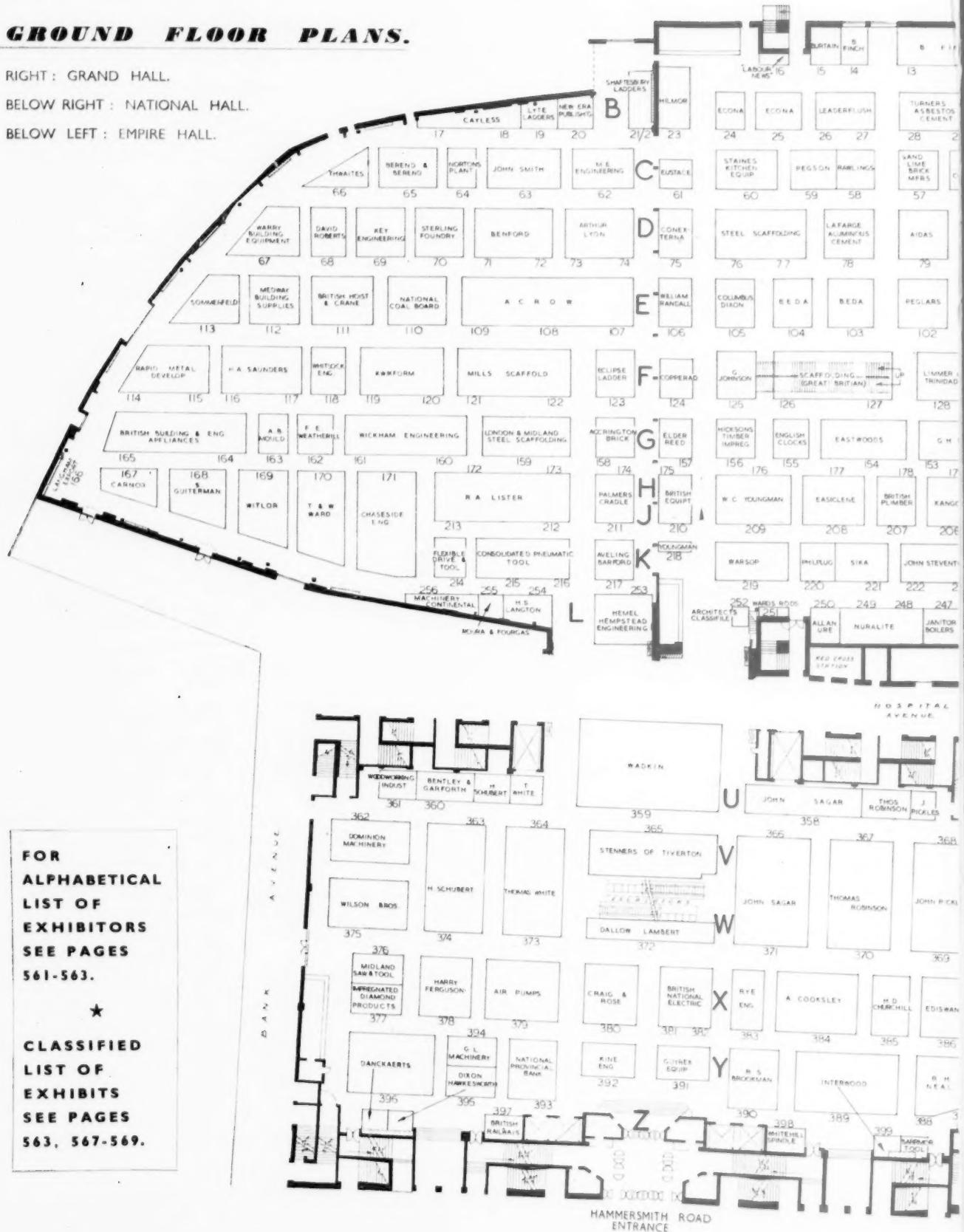
(Continued to page 567)

## GROUND FLOOR PLANS.

RIGHT: GRAND HALL.

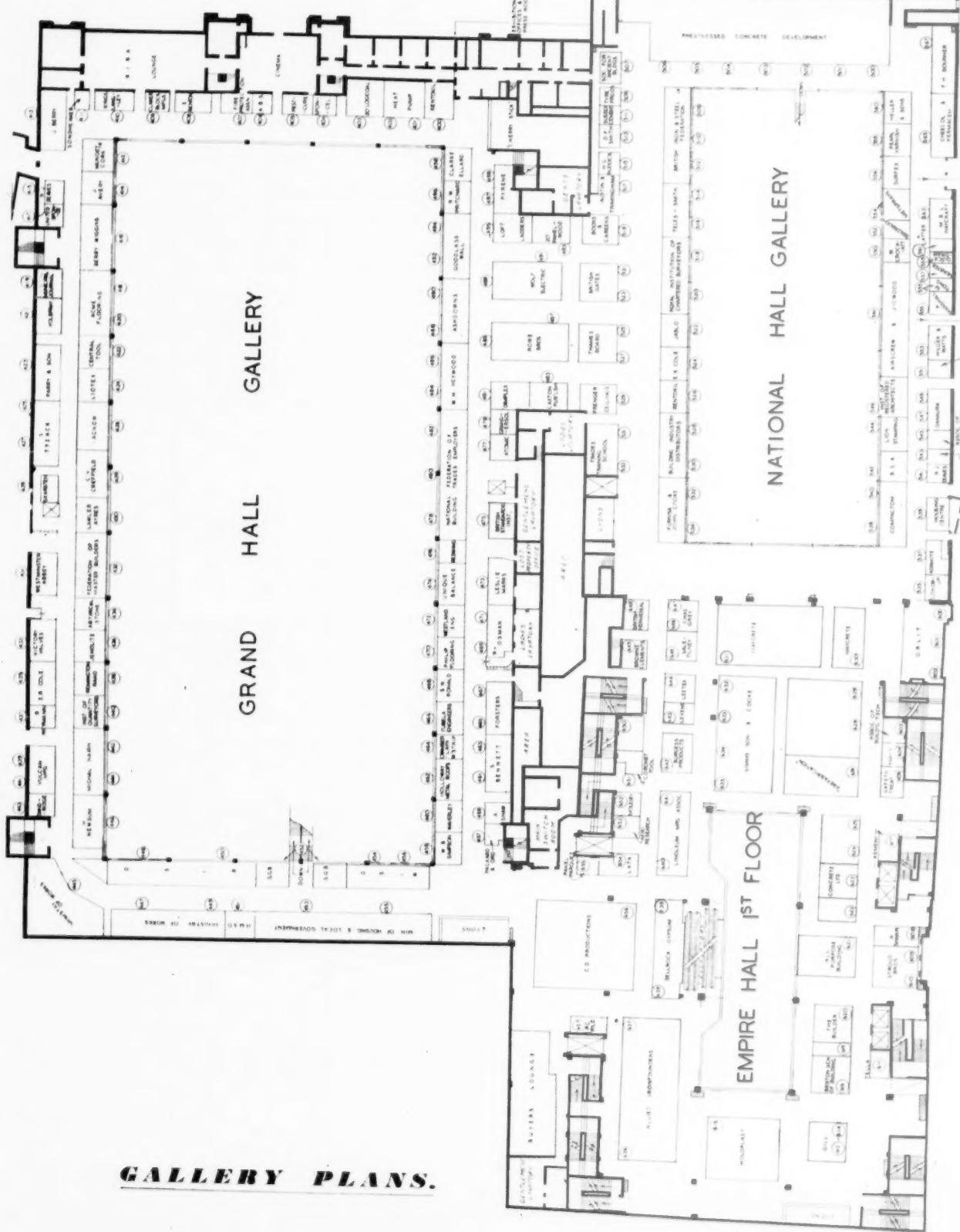
BELLOW RIGHT: NATIONAL HALL.

BELLOW LEFT: EMPIRE HALL.





# GRAND HALL GALLERY



Continued from page 563)

## • Brick &amp; Block Making Machinery

Bentley & Garforth.—360 U/E  
Berend & Berend, Ltd.—65 C/G  
357 Portcullis Ave.  
Liner Concrete Machinery Co. Ltd.—  
271 N/N  
Millars' Machinery Co., Ltd.—258  
259 M/N  
Pioneer Mixers, Ltd.—345 S/N  
Trianco, Ltd.—290, 291 O/N, 294, 295  
P/N  
Wickham Engineering Co., Ltd.—  
160, 161 G/G

## • Canteen and Kitchen Equipment

Allied Ironfounders Ltd.—626, 637 E/G  
British National Electrics Ltd.—381,  
382 X/E  
Easicleene Porcelain-Enamel (1938) Ltd.—  
177 H/G, 208 J/G  
Harvey, G. A. & Co. (London) Ltd.—  
150, 151 G/G  
Shires & Co. (London) Ltd.—276,  
277 N/N

**e Clay Products (inc. Bricks and Tiles)**

Accrington Brick & Tile Co. Ltd.—  
158 G/G  
Berkhamsted Brick Co. Ltd.—58 C/G  
Carter Group of Companies—85 D/G  
Cement Marketing Co. Ltd.—130 F/G  
Colthurst, Symons & Co. Ltd.—84 D/G  
Dowling, G. H. & Co. Ltd.—152,  
153 G/G  
Eastwoods Ltd.—154 G/G  
Fisons Ltd.—54 C/G  
Holcon, Ltd.—47 C/G  
Langton London Ltd.—132 F/G  
Leeds Fireclay Co. Ltd.—227, 228 K/G  
London Brick Co. Ltd.—97 E/G  
National Coal Board.—110 E/G  
Packard & Ord Ltd.—457 G/G  
Redhill Tile Co. Ltd.—99 E/G  
South-Eastern Brick & Tile Federation.—  
92 E/G  
Sussex & Dorset United Brick Com-  
panies Ltd.—135, 136 F/G

## • Ceilings

British Plaster Board, Ltd.—94 E/G  
Burgess Products Co., Ltd.—642 E/G  
Cape Asbestos Co., Ltd.—261 MIN  
Expanded Metal Co., Ltd.—95 E/G  
Frerger Ceilings, Ltd.—529 NG  
Metal Sections, Ltd.—147 G/G  
Meta Mica, Ltd.—10 A/G

## • Cement and Concrete Paints

Cement Marketing Co. Ltd.—130 F/G  
Cheecol Processes, Ltd.—565 NG  
Ellis, John & Sons, Ltd.—285 O/N  
Sal-Ferricite & Trading Co., Ltd.—  
37 B/G  
Sika, Ltd.—221 K/G

• Cement and Concrete Products  
(including Bricks and Tiles)

A.B.C.D. (Raynes Park) Ltd.—275 N/N  
Cement Marketing Co. Ltd.—130 F/G  
Cheecol Processes Ltd.—565 NG  
Costain Concrete Co., Ltd.—314, 315  
O/N  
Eastwoods Ltd.—154 G/G  
Ellis, John & Sons, Ltd.—285 O/N  
Johnson's Reinforced Concrete  
Engineering Co., Ltd.—45 C/G  
Lafarge Aluminous Cement Co., Ltd.—  
78 D/G  
Leighton Buzzard Tiles, Ltd.—154 G/G  
Limmer & Trinidad Lake Asphalt Co.,  
Ltd.—128 F/G  
Marley Tile Co., Ltd.—181, 182 H/G,  
203, 204 J/G  
Pyrene Co., Ltd.—497, 499 G/G  
Smith's Fireproof Floors, Ltd.—294,  
295 P/N  
Sussex Cement & Concrete Products.—  
511 NG  
Trianco, Ltd.—290, 291 O/N, 294  
295 P/N  
True-Crete, Ltd.—II A/G

## • Cements

Cement Marketing Co. Ltd.—130 F/G  
Eastwoods Ltd.—154 G/G  
Gotham Co., Ltd.—273 N/N  
Holcon, Ltd.—47 C/G  
Kerner-Greenwood & Co. Ltd.—337 S/N  
Lafarge Aluminous Cement Co. Ltd.—  
78 D/G

Leeds Fireclay Co., Ltd.—227, 228 K/G  
Pyrene Co., Ltd.—497, 499 G/G  
Templer, C. G. & Co., Ltd.—202 J/G

## • Cement Treatments

Byrd, A. A., & Co. Ltd.—343 S/N, 349  
T/N  
Cement Marketing Co.—130 F/G  
Fyrok Ltd.—31 B/G  
Sal-Ferricite & Trading Co., Ltd.—  
37 B/G  
Tretol Ltd.—230 K/G

## • Chains, Belts

Berry Wiggins & Co., Ltd.—416 G/G

Revil, Ltd.—383 Q/N  
Rhodes Chains, Ltd.—193 J/G

## • Cisterns

Braby, Fredk. & Co., Ltd.—229 K/G  
Easicleene Porcelain-Enamel (1938) Ltd.—  
177 H/G, 208 J/G  
Ely & Gibbons, Ltd.—50 C/G  
Harvey, G. A. & Co. (London) Ltd.—  
150, 151 G/G  
Shires & Co. (London) Ltd.—276,  
277 N/N

## • Clay Products (inc. Bricks and Tiles)

Accrington Brick & Tile Co. Ltd.—  
158 G/G  
Berkhamsted Brick Co. Ltd.—58 C/G  
Carter Group of Companies—85 D/G  
Cement Marketing Co. Ltd.—130 F/G  
Colthurst, Symons & Co. Ltd.—84 D/G  
Dowling, G. H. & Co. Ltd.—152,  
153 G/G  
Eastwoods Ltd.—154 G/G  
Fisons Ltd.—54 C/G  
Holcon, Ltd.—47 C/G  
Langton London Ltd.—132 F/G  
Leeds Fireclay Co. Ltd.—227, 228 K/G  
London Brick Co. Ltd.—97 E/G  
National Coal Board.—110 E/G  
Packard & Ord Ltd.—457 G/G  
Redhill Tile Co. Ltd.—99 E/G  
South-Eastern Brick & Tile Federation.—  
92 E/G  
Sussex & Dorset United Brick Com-  
panies Ltd.—135, 136 F/G

## • Clocks

English Clock Systems, Ltd.—155 G/G

## • Colour and Pigments

Reed, A., Elder & Co. Ltd.—157 G/G  
Sal-Ferricite & Trading Co., Ltd.—  
37 B/G  
Sealocrete Products Ltd.—191 H/G

## • Compressors, Engines, Generators

Air Pumps Ltd.—379 X/E  
British Equipment Co. Ltd.—210 J/G,  
175 M/G  
Brush Abor Group Services Ltd.—  
312, 313 Q/N  
B.S.A. Cycles Ltd.—542 NG  
Consolidated Pneumatic Tool Co. Ltd.—  
215, 216 K/G  
Lawler, Ayres & Co. Ltd.—279 O/N,  
430 G/G  
Lister, R. A. & Co. Ltd.—172, 173 H/G,  
212, 213 J/G  
Lyon, Arthur & Co. (Engineers) Ltd.—  
73, 74 D/G

• Concrete Machinery, Plant,  
Shuttering Formwork and Equipment

A. B. Mould & Construction Co. Ltd.—  
163 G/G  
A.C.E. Machinery Ltd.—283, 284 O/N  
Acrow (Engineers), Ltd.—107, 108, 109  
E/G, 426 G/G  
Allam, E. P. & Co. Ltd.—325 R/N  
Benford Ltd.—71, 72 D/G  
Benton, Edward & Co. Ltd.—408/G/G  
Byrd, A. A. & Co. Ltd.—343 S/N,  
349 T/N  
Consolidated Pneumatic Tool Co. Ltd.—  
215, 216 K/G  
Dixon Hawkesworth Ltd.—395 Y/E  
Flexible Drive & Tool Co. Ltd.—214 K/G  
Goodenough Contractors' Machinery  
Ltd.—321, 322 R/N  
Guyrex Equipment Ltd.—391 Y/E  
Kwikform Ltd.—119, 120 F/G  
Liner Concrete Machinery Co. Ltd.—  
271 N/N  
M. E. Engineering Ltd.—62 C/G  
Millars' Machinery Co. Ltd.—258, 259  
M/N  
Mills Scaffold Co. Ltd.—121, 122 F/G  
Parker, Frederick, Ltd.—296, 297 P/N  
Pioneer Mixers Ltd.—345 S/N  
Rapid Metal Developments Ltd.—  
114, 115 F/G  
Road Machines (Drayton) Ltd.—282  
O/N, 356 Portcullis Avenue  
Roberts, David & Co. (Engineers)  
Ltd.—68 D/G  
Scaffolding (Great Britain) Ltd.—  
126, 127 F/G, 452 G/G  
Stephens & Carter Ltd.—326 R/N  
Stoerh & Pitt Ltd.—288, 289 O/N  
Trianco, Ltd.—290, 291 O/N, 294, 295  
P/N  
Warsop Power Tools Ltd.—219 K/G

## • Contractors' Plant and Machinery

Allam Road Plant Ltd.—325 R/N  
Aveling-Barford Ltd.—217 K/G  
Berend & Berend Ltd.—165 C/G  
357 Portcullis Avenue

Chassidae Engineering Co. Ltd.—  
171 H/G

Cole, E. R. Ltd.—435 /GG  
Consolidated Pneumatic Tool Co. Ltd.—  
215, 216 K/G

Dixon Hawkesworth Ltd.—395 Y/E

Ferguson Edwards Ltd.—378 X/E

Kango Electric Hammers Ltd.—179 H/G

206 J/G

Liner Concrete Machinery Co. Ltd.—  
271 N/N

Lister, R. A. & Co. Ltd.—172, 173 H/G,  
212, 213 J/G

M.E. Engineering, Ltd.—42 C/G

Millars' Machinery Co. Ltd.—258,

259 M/N

Nash, H. R. Ltd.—267 N/N

Norton's Plant Hire—64 C/G

Parker, Frederick, Ltd.—296, 297 P/N

Pegson Ltd.—59 C/G

Road Machines (Drayton) Ltd.—282

O/N, 357 Portcullis Avenue

Sale Tilney (Agricultural & Industrial)

Ltd.—645, 646 E/G

Saunders, H. Ltd.—116, 117 F/G

Scaffolding (Great Britain) Ltd.—126,

127 F/G, 452 G/G

Stoerh & Pitt Ltd.—288, 289 O/N

Thwaites Agricultural Engineering Co.

Ltd.—66 C/G

Ward, Thos. W. Ltd.—170 H/G

Warry Patent Building Equipment

Co. Ltd.—67 D/G

Warsop Power Tools Ltd.—219 K/G

Weatherill, F. E. Ltd.—162 G/G

Whitlock Bros. Ltd.—118 F/G

Wickham Engineering Co. Ltd.—160,

161 G/G

Witlow Ltd.—169 H/G

## • Copper Products

Braby, Fredk. & Co. Ltd.—229 K/G  
Conex-Terna Ltd.—75 D/G  
Econs Modern Products Ltd.—25 B/G  
Ely & Gibbons Ltd.—50 C/G  
Harvey, G. A. & Co. (London) Ltd.—  
150, 151 G/G

Holloway Metal Roofs, Ltd.—462 /GG

Ideal Boilers & Radiators Ltd.—

310 Q/N

Imperial Chemical Industries Ltd.—

86, 87 D/G

Kennedy, W. Ltd.—233 K/G

Kings Langley Engineering Co. Ltd.—

410 J/G

Pegler Ltd.—102 E/G

Range Boilers Ltd.—269 N/N

Yorkshire Copper Works Ltd.—146 G/G

## • Cranes, Hoists, Conveyors and Fittings

A.C.E. Machinery Ltd.—283, 284 O/N  
Acrow (Engineers), Ltd.—107, 108, 109  
E/G, 424 GG

Berend & Berend Ltd.—65 C/G—357

Portcullis Avenue

British Hoist & Crane Co. Ltd.—III

E/G

Danbridge, Arthur F. Ltd.—443 G/G

Hemel Hempstead Engineering Co.

Ltd.—253 L/G

Lawler, Ayres & Co. Ltd.—279 O/N

Lorry Loaders Ltd.—

430 G/G

Millars' Machinery Co. Ltd.—258, 259

M/N

Neal, R. H. & Co. Ltd.—387, 388 Y/E

Parker, Frederick, Ltd.—296, 297 P/N

Roberts, David & Co. (Engineers) Ltd.

—68 D/G

Scaffolding (Great Britain) Ltd.—126,

127 F/G, 452 G/G

Thwaites Agricultural Engineering Co.

Ltd.—66 C/G

Warry Patent Building Equipment Co.

Ltd.—67 D/G

Wickham Engineering Co. Ltd.—160,

161 G/G

Wild, Thos. C. (Machinery) Ltd.—

657 /EG and outside site.

• Dampcourses, Roofing Felts,  
Waterproofing Materials, etc.

Alabastina Co. (British) Ltd.—280 O/N

Anderson, D. & Son Ltd.—129 F/G

Berry Wiggins & Co. Ltd.—416 G/G

Bitumen Industries Ltd.—I A/G

Briggs, William, & Sons Ltd.—32, 33

8/G

Byrd, A. A., & Co. Ltd.—343 S/N,

349 T/N

Cement Marketing Co. Ltd.—130 F/G

Expanite Ltd.—225 K/G

Grangers Ltd.—479 GG

Highways Construction Ltd.—56 C/G

Imperial Chemical Industries Ltd.—

86, 87 D/G

Kerner-Greenwood & Co. Ltd.—337

S/N

Limer & Trinidad Lake Asphalt Co.

Ltd.—128 F/G

National Coal Board.—110 E/G

Ruberoid Co. Ltd.—308, 309 Q/N

## • Fencing and Gates

Binns, A. J. Ltd.—262, 263 M/N

Bolton Gate Co. Ltd.—182 H/G, 201 J/G

British Gates.—521, 523 /NG

Bryce White & Co. Ltd.—93 E/G

Forsters Machine Co. Ltd.—465, 467 /GG

Penfold Fencing & Engineering Ltd.—

44 C/G

Scaffolding (Great Britain) Ltd.—126,

127 F/G, 452 /GG

Ure, Allan, Ltd.—250 L/G

## • Ferricite &amp; Trading Co. Ltd.—

37 B/G

Sealocrete Products Ltd.—191 H/G

Secomatic Ltd.—2 A/G

Sika Ltd.—221 K/G

Tretol Ltd.—230 K/G

## • Door and Gate Fittings and Gear

Acrow (Engineers) Ltd.—107, 108

109 E/G, 426 /GG

Avery, J. & Co. (Est. 1834) Ltd.—

414 G/G

Binns, A. J. Ltd.—262, 263 M/N

Clarke Ellard Engineering Co. Ltd.—

498 G/G

Forsters Machine Co. Ltd.—465, 467 /GG

Froy, W. N., & Sons Ltd.—304, 305 Q/N

Hill, Aldam, E., & Co. Ltd.—327, 328

R/N

Johnson, G. Bros. Ltd.—125 F/G

Vulcan Manufacturing (Wolverhampton) Ltd.—439, 441 G/G

## • Doors (Metal Doors, etc.)

British Gates, 521, 523 /NG

British Plumber Ltd.—178 H/G, 207 J/G

Bryce White & Co. Ltd.—93 E/G

Burgess Products Co. Ltd.—642 /EG

English Joinery Manufacturers' Association (Incorporated)—142 G/G

Gliksten Doors Ltd.—144 G/G

Leaderflush Ltd.—26, 27 B/G

Moulded Components (Jablo) Ltd.—

522 NG

Shapland & Pester Ltd., Successors to.—

333 S/N

Sharp Bros., & Knight Ltd.—293 P/N

Stramit Boards Ltd.—237, 238 L/G

Westland Engineers Ltd.—472 /GG

## • Drain Cleaning and Testing Equipment

Cayless Bros. (Battersea) Ltd.—17, 18

8/G

Shetack Tool Works Ltd.—344 S/N

Ward's Flexible Rod Co. Ltd.—251 L/G

## • Draught Excluders

Atomic Draught-Sealing Co.—477 /GG

British Hermeseal Ltd.—548 /EG

Chamberlain Weatherstrips Ltd.—

464 G/G

## • Drawing Office and Surveying Equipment

Austin & Trimingham.—517 NG

Hilger & Watts Ltd.—553 /NG

Metsprays Ltd.—554 /NG

Stanley, W. F., & Co. Ltd.—341 S/N

## • Ducting

Braby, Fredk., & Co. Ltd.—229 K/G

Collectate & British Uralite Ltd.—

245 L/G

Greenwoods & Airvac Ventilating Co.

Ltd.—192 H/G

Key Engineering Ltd.—69 D/G

## • Dust Control Equipment

Cole, E. R., Ltd.—435 /GG

Dallow, Lambert & Co. Ltd.—372 W/E

## • Electrical Apparatus, Heaters, Fittings and Installations

Aidas Electric Ltd.—79 D/G

**• Fire-Resisting Materials and Treatment**

Berry, J., & Sons Ltd.—413 /GG  
Bolton Gate Co. Ltd.—184 H/G, 201 J/G  
British Plaster Board Ltd.—24 E/G  
Cafferata & Co. Ltd.—38 B/G  
Cape Asbestos Co. Ltd.—261 M/N  
Cellactite & British Uralite Ltd.—  
245 L/G  
Durasteel Ltd.—316 Q/N  
Fibreglass Ltd.—241 L/G  
Gyproc Ltd.—149 G/G  
Holcon Ltd.—47 C/G  
Mita Mica Ltd.—10 A/G  
Pyrok Ltd.—31 B/G  
Shapland & Petter Ltd., Successors to.—  
333 S/N  
Smith's Fireproof Floors Ltd.—294,  
295 P/N  
Stramit Boards Ltd.—237, 238 L/G

**• Floor Polishing and Cleaning Machines—including Polishes**

Cimex-Fraser Tuson Ltd.—185 H/G,  
200 /G  
Columbus-Dixon Organisation—105 E/G  
Flexot Engineering Co. Ltd.—35 B/G  
Lister, Asbestos Flooring Co. Ltd.—  
424 /G  
Nufloor Ltd.—197 J/G  
Reed, A., Elder & Co. Ltd.—157 G/G  
Sal-Ferricite & Trading Co. Ltd.—  
37 B/G

**• Floors and Flooring**

Adamite Co. Ltd.—537 /NG  
Aero Research—653 EG  
Armstrong Cork Co. Ltd.—46 C/G  
Artificial Stone & Concrete Co. Ltd.—  
434 /G  
Avon India Rubber Co. Ltd.—330  
S/N  
Bennett, S. & Son (Wood Flooring)  
Ltd.—461, 463 GG  
Bitumen Industries Ltd.—1 A/G  
Burtaim Ltd.—15 A/G  
Calder Ltd.—330 R/N  
Columbus-Dixon Organisation—105 E/G  
Cooke, John & Sons (Huddersfield)  
Ltd.—532 NG  
Costain Concrete Co. Ltd.—314,  
315 Q/N  
Ferodo Ltd.—53 C/G  
Fishburn, L.—543 /NG  
Highways Construction Ltd.—56 C/G  
Holcon Ltd.—47 C/G  
Holoplast Ltd.—615 EG  
Imperial Chemical Industries Ltd.—  
66, 67 D/G  
Leaderflush Ltd.—26, 27 D/G  
Limmer & Trinidad Lake Asphalt Co.  
Ltd.—128 F/G  
Lictex Asbestos Flooring Co. Ltd.—  
424 /G  
Marley Tile Co. Ltd.—181, 182 H/G,  
203, 204 J/G  
Masonite Ltd.—107 H/G, 198 J/G  
Mita Mica Ltd.—10 A/G  
Mundet Cork Products Ltd.—412 /GG  
Nairn, Michael & Co. Ltd.—442, 444 /GG  
National Flooring Co. Ltd.—231 K/G  
Panel Parquetry Ltd.—655 /EG  
Peerless Built-in Furniture Ltd.—  
41 B/G  
Philip Flooring Co. Ltd.—470 /GG  
Reed, A., Elder & Co. Ltd.—157 G/G  
Sal-Ferricite & Trading Co. Ltd.—  
37 B/G  
Semtex Ltd.—101 E/G  
Simpson, W. B., & Sons Ltd.—458 /GG  
Smith's Fireproof Floors Ltd.—294,  
295 P/N  
Steventon, John & Sons Ltd.—222,  
223 K/G  
Surfex Flooring Co. & Liquitile Supply  
Co.—556 /NG  
Vigers, A., Sons & Co. Ltd.—183 H/G

**• Flues**

Finch, B. & Co. Ltd.—12, 13, 14 A/G  
True Flue Ltd.—11 A/G

**• Galvanised Products and Processes**

Braby, Fredk. & Co. Ltd.—229 K/G  
Crittall Manufacturing Co. Ltd.—  
98 E/G  
Harvey, G. A., & Co. (London) Ltd.—  
150, 151 G/G  
Secomatic Ltd.—2, 3 A/G  
Smith, D. F. & Co. Ltd.—313 /NG  
Williams, John & Sons (Cardiff) Ltd.—  
226 K/G

**• Gas Apparatus, Heaters, Fitting and Installations**

Ascot Gas Water Heaters Ltd.—  
272 N/N  
Flavel, Sidney & Co. Ltd.—266 N/N  
Ideal Boilers & Radiators Ltd.—310 Q/N  
Yorkshire Copper Works Ltd.—  
146 G/G

**• General Builders Merchants**

Eastwoods Ltd.—154 G/G  
Finch, B., & Co. Ltd.—12, 13, 14 A/G  
Froy, W. N., & Sons, Ltd.—304, 305  
Q/N  
**• Glass (including Glass Bricks, Blocks, Tiling, etc.)**

Chance Bros. Ltd.—186 H/G, 199 J/G  
Eustace & Partners Ltd.—61 C/G  
Ide, T. & W. Ltd.—287 O/N  
King, J. A., & Co. Ltd.—134 F/G  
London Sand Blast Decorative Glass  
Works Ltd.—148 G/G  
Pilkington Bros. Ltd.—133 F/G  
Price, D. W., & Sons Ltd.—351 T/N  
Williams & Williams Ltd.—83 D/G

**• Glues and Adhesives**

Aero Research—653 EG  
Berry Wiggins & Co. Ltd.—416 /GG  
Bitumen Industries Ltd.—1 A/G  
Union Glue & Gelatine Co. Ltd.—  
36 B/G

**• Government, Council and Educational Exhibits**

British Railways—397 Z/E  
Building Crafts Training School—  
531, 533 /NG  
Department of Scientific & Industrial  
Research—448, 450, 454, 456 /GG  
Her Majesty's Stationery Office—  
451 /GG  
Ministry of Housing & Local Govern-  
ment—453, 455 /GG  
Ministry of Works—445, 447, 449 /GG

**• Hammers—(Bolt and Wing, Automatic)**

Adam & Harvey Ltd.—319 R/N  
Bourner, S. H. & Co. (Engineers)  
Ltd.—547 /NG  
Condrup Ltd.—535 /NG  
Kwikform Ltd.—119, 120 F/G  
Langham Export Co. Ltd.—166 H/G  
Roberts, David & Co. (Engineers)  
Ltd.—48 D/G  
Roura & Forgas Ltd.—255 L/G

**• Hardwoods, Softwoods, Carving Joinery and Mouldings, Ply-woods**

Bryce White & Co. Ltd.—93 E/G  
Calders Ltd.—330 R/N  
English Joinery Manufacturers' Associa-  
tion (Incorporated)—142 G/G  
Eustace & Partners Ltd.—61 C/G  
Gliksten, J. & Co. Ltd.—144 G/G  
Mallinson, Wm. & Sons Ltd.—100 E/G  
Meridiths Ltd.—144 G/G  
Meyer, Montague L. Ltd.—306 Q/N  
Oliver, Wm. & Sons Ltd.—139 F/G  
Shapland & Petter Ltd., Successors to.—  
333 S/N  
Sharp Bros. & Knight Ltd.—293 P/N

**• Insecticides, Fumigators and Wood Preservatives**

Calders Ltd.—330 R/N  
Cuprinol Ltd.—335 S/N  
Grangers Ltd.—479 /GG  
Hickson's Timber Impregnation Co.  
(G.B.) Ltd.—156 G/G  
Jenson & Nicholson Ltd.—329 R/N  
National Coal Board.—110 E/G  
Pestcure Ltd.—405 /GG  
Rentokil Ltd.—400 /GG  
Woodworm & Dry Rot Control Ltd.—  
526 /NG

**• Insulation and Materials**

Anderson, D., & Sons Ltd.—129 F/G  
Briggs, William, & Sons Ltd.—32, 33 B/G  
British Hermaseal Ltd.—448 /EG  
British Plaster Board Ltd.—94 E/C  
Bryce White & Co. Ltd.—93 E/G  
Burges Products Co. Ltd.—642 /EG  
Cafferata & Co. Ltd.—38 B/G  
Cape Asbestos Co. Ltd.—261 M/N  
Cellactite & British Uralite Ltd.—  
245 L/G  
Celotex Ltd.—30 B/G  
Chesol Processes Ltd.—565 /NG  
Colt, W. H. (London) Ltd.—232 K/G  
Compactrol Ltd.—530, 540 /NG  
Dohm, Ltd.—52 C/G  
Eastwoods Specialists Ltd.—154 G/G  
Ellis, John & Sons Ltd.—285 Q/N  
Fibreglass Ltd.—241 L/G  
Gliksten, J. & Son Ltd.—144 G/G  
Gyproc Products Ltd.—149 G/G  
Heywood, W. H., & Co. Ltd.—484,  
486 /GG  
Holcon Ltd.—47 C/G  
King, J. A., & Co. Ltd.—134 F/G  
Masonite Ltd.—107 H/G, 198 J/G  
Mita Mica Ltd.—10 A/G  
Mundet Cork Products Ltd.—412 /GG

Pilkington Bros. Ltd.—133 F/G  
Pyrene Co. Ltd.—497, 499 /GG  
Pyrok Ltd.—31 B/G  
Stramit Boards Ltd.—237, 238 L/G  
Thermacoust Ltd.—89 D/G  
Thermalite Ltd.—240 L/G

**• Joint Sealing Compounds and Expansion Jointing**

Celotex Ltd.—30 B/G  
Expanite Ltd.—225 K/G  
Philup Products Ltd.—220 K/G  
Ruberoil Co. Ltd.—308, 309 Q/N  
Secomatic Ltd.—2, 3 A/G  
Templer, C. G., & Co. Ltd.—202 J/G  
Tretol Ltd.—230 L/G

**• Journals and Publications**

Architect & Building News, 145 G/G  
Architectural Press Ltd.—355 T/N  
Benn Brothers Ltd.—7 A/G  
"Books & Careers," \$19 /NG  
Builder Ltd.—141 G/G, 620 /EG  
Building Industries & Scottish Architect.  
—235 K/G

Caxton Publishing Co. Ltd.—483 /GG  
Federated Employers' Press Ltd.—  
4 A/G

Illustrated Carpenter & Builder.—  
352 T/N  
Labour News, Public Works & Building  
Weekly.—16 A/G

Municipal Engineering.—419 /GG

Municipal Journal.—419 /GG

New Era Publishing Co. Ltd.—20 B/G

Official Architecture & Planning.—  
350 T/N

Standard Catalogue Co. Ltd.—224 K/G

Waverley Book Co. Ltd.—460 /GG

Woodworking Industry.—361 U/E

**• Lighting—Flood**

Lyon, Arthur, & Co. (Engineers) Ltd.—  
73, 74 D/G  
Philips Electrical Ltd.—320 R/N

**• Linoleum**

Adamite Co. Ltd.—537 /NG

Burtaim Ltd.—15 A/G

Highway Construction Ltd.—56 C/G

Limmer & Trinidad Lake Asphalt Co.  
Ltd.—128 F/G

Linoleum Manufacturers Association.—  
640, 641 /EG

Philip Flooring Co. Ltd.—470 /GG

Safety Tread Ltd.—466 /EG

**• Locks and Safes**

Chubb & Son's Lock & Safe Co. Ltd.—  
8 A/G

Milner's Safe Co. Ltd.—331 S/N

Vulcan Manufacturing (Wolverhampton)  
Ltd.—439, 441 /GG

**• Marbles, Mosaics and Murals**

Anselm Olding & Sons Ltd.—137 F/G

Carter Group of Companies—85 D/G

Kemény—607 EG

Philip Flooring Co. Ltd.—470 /GG

Reed, A., Elder & Co. Ltd.—157 G/G

Simpson, W. B., & Sons Ltd.—458 /GG

**• Metal Staircases**

Braby, Fredk., & Co. Ltd.—229 K/G

Loft Ladders Ltd.—495 /GG

Safety Tread Ltd.—606 /EG

**• Metal Structures, Partitions, Doors and Steel Equipment**

Ashtone Ltd.—488, 490 GG

Braby, Fredk., & Co. Ltd.—229 K/G

Crittall Manufacturing Co. Ltd.—  
98 E/G

Durasteel Ltd.—316 Q/N

Esvian Ltd.—40 B/G

Harvey, G. A., & Co. (London) Ltd.—  
150, 151 /GG

Hope, Henry, & Sons Ltd.—90, 91 D/G

Imperial Chemical Industries Ltd.—  
86, 87 D/G

Johnson, G. Bros. Ltd.—125 F/G

Milner's Safe Co. Ltd.—331 S/N

Rove Bros. & Co. Ltd.—485, 487 GG

Sankey, Joseph, & Sons Ltd.—S1 C/G

Sommerfelds Ltd.—113 E/G

Williams, John, & Sons (Cardiff) Ltd.—  
226 K/G

Williams & Williams Ltd.—83 D/G

**• Moulding Compounds**

Gotham Co. Ltd.—273 N/N

Vinatex Ltd.—334 S/N

**• Office Equipment and Services**

Architects Classifieds Ltd.—252 L/G

Avery, J., & Co. (Est. 1834) Ltd.—414 G/G

Harvey, G. A., & Co. (London) Ltd.—  
150, 151 G/G

Remington Rand Ltd.—438 GG

Shapland & Petter Ltd., Successors to.—  
333 S/N

**• Paint & Rust Removers**

Jenolite Ltd.—436 /GG

Revol Ltd.—303 Q/N

Skarsten Manufacturing Co. Ltd.—  
429 /GG

**• Paint Brushes, Decorators' Tools and Equipment**

Brition Brush Co. Ltd.—353 T/N

Chadwick & Shapcott Ltd.—190 H/G,  
195 J/G

Eclipse Rail-Track Ladder Co. Ltd.—  
123 F/G

Hamilton & Co. (London) Ltd.—  
346 T/N

Heller, & Sons (Engineers) Ltd.—  
560 /NG

Hesketh, Gordon Ltd.—278 N/N

Heyman, B.—437 GG

Langton, H. S.—254 L/G

Leng, Christopher & Sons Ltd.—  
53 C/G

Marks, Leslie & Co. Ltd.—473 /GG

Russell, Macdonald & Co. Ltd.—246 L/G

Skarsten Manufacturing Co. Ltd.—  
429 /GG

Spencer Ltd.—404 /GG

United Sponge Co. Ltd.—417 /GG

Youngman, W. C. Ltd.—176 H/G,  
209 J/G, 218 K/G

**• Paint Machinery**

Torrance & Sons Ltd.—288, 289 O/N

**• Paints, Varnishes, Enamels, Dismers, Stains, etc.**

Berger, Lewis (Great Britain) Ltd.—  
311 Q/N

Blundell, Spence & Co. Ltd.—339,  
340 S/N

Craig & Rose Ltd.—380 X/E

Durose Products Ltd.—239 L/G

Goodlass, Wall & Co. Ltd.—492,  
494 /GG

Hadfields (Merton) Ltd.—49 C/G

Jenson & Nicholson Ltd.—329 R/N

Liquitile Supply Co. Ltd.—556 /NG

Parsons, Thos. & Sons Ltd.—96 E/G

Pearl Varnish Co. Ltd.—558 NG

Sal-Ferricite & Trading Co. Ltd.—  
37 B/G

Silexine Paints Ltd.—43 C/G

Turner, Charles & Son Ltd.—131 F/G

**• Pavement Lights**

King, J. A. & Co. Ltd.—134 F/G

Pilkington Bros. Ltd.—133 F/G

**• Paving**

Anselm Olding & Sons Ltd.—137 F/G

Ellis, John & Sons Ltd.—285 O/N

"Noelite" Ltd.—188 H/G

Philip Flooring Co. Ltd.—470 /GG

**• Plant Hire**

Dandridge, Arthur F. Ltd.—443 /GG

Norton's Plant Hire—64 C/G

Pritchard, R. W. (Manufacturing) Ltd.—  
496 /GG

Scaffolding (Great Britain) Ltd.—  
126, 127 F/G, 452 /GG

Sommerfelds Ltd.—113 E/G

Steel Scaffolding Co. Ltd.—76, 77 D/G

Stephens & Carter Ltd.—326 R/N

Youngman, W. C. Ltd.—176 H/G,  
209 J/G, 218 K/G

**• Plaster, Plastering, Gypsum Products and Finishes**

Albastine Co. (British) Ltd.—280 O/N

Bellrock Gypsum Industries Ltd.—  
347 T/N, 638, 639 /EG

British Plaster Board Ltd.—94 E/G

Cafferata & Co. Ltd.—38 B/G

Callow & Keppich Ltd.—281 O/N

Gotham Co. Ltd.—273 N/N

Gyproc Products Ltd.—149 G/G

Gypsum Mines Ltd.—336 S/N

Mita Mica Ltd.—10 A/G

Pyrok Ltd.—31 B/G

**• Plastic Products**

Berry, J. & Sons Ltd.—413 /GG

Holoplast Ltd.—615 EG

Imperial Chemical Industries Ltd.—  
86, 87 D/G

Klinger, Richard Ltd.—428 /GG

Marley Tile Co. Ltd.—181, 182 H/G,  
203, 204 J/G

Nairn, Michael & Co. Ltd.—442, 444 GG

Panel Wood Ltd.—493 GG

Warerite Ltd.—81 D/G

**• Prefabricated Systems and Portable Buildings**

A.B.C.D. (Raynes Park) Ltd.—275 N/N  
All Purpose Building Co. Ltd.—621 EG  
Belfrock Gypsum Industries Ltd.—  
347 T/N, 638, 639 EG  
C.D. Productions Ltd.—456 EG  
Ellis, John & Sons Ltd.—285 O/N  
Finch, B., & Co. Ltd.—12, 13, 14 A/G  
Gardiner, Sons & Co. Ltd.—89 D/G  
Gill, James (Engineers) Ltd.—612, 613,  
614 EG

Holoplast Ltd.—615 EG  
London & Midland Steel Scaffolding  
Co. Ltd.—159 G/G

Marley Tile Co. Ltd.—181, 182 H/G,  
203, 204 J/G  
Maycrete Ltd.—630, 631 EG  
Medway Buildings & Supplies Ltd.—  
112 E/G

Metal Sections Ltd.—147 G/G  
Newsum, H. Sons & Co. Ltd.—446 GG  
Orlit Ltd.—500, 601, 602 EG

Roberts, David & Co. (Engineers) Ltd.—  
68 D/G

Simms, W. J. Sons & Cooke Ltd.—  
632, 635 EG

S.M.D. Engineers.—342 S/N  
Smith, John & Co. (London) Ltd.—  
63 C/G

Sommerfelds Ltd.—113 E/G  
Tubewrights Ltd.—324 R/N

**• Pumps and Pumping Plant**

Beresford, James & Son Ltd.—262,  
263 N/N

Consolidated Pneumatic Tool Co. Ltd.—  
215, 216 K/G

Dandridge, Arthur, F. Ltd.—443 GG  
Dixon Hawkesworth Ltd.—395 Y/G

Goodenough Contractors' Machinery  
Ltd.—321, 322 R/N

Lister, R. A. & Co. Ltd.—172, 173 H/G,  
212, 213 J/G

Lyon, Arthur & Co. (Engineers) Ltd.—  
73, 74 D/G

Millars' Machinery Co. Ltd.—258,  
259 M/N

Pegson Ltd.—59 C/G  
Warsop Power Tools Ltd.—219 K/G

Witlow Ltd.—169 H/G

**• Rainwater Goods**  
Braby, Fredk. & Co. Ltd.—229 K/G  
Finlock Gutters Ltd.—354 T/N  
Harvey, G. A. & Co. (London) Ltd.—  
150, 151 G/G

Holloway Metal Roofs Ltd.—462 GG  
Nuralite Sales Ltd.—248, 249 L/G

Vitreflex Ltd.—318 Q/N

Vulcan Manufacturing (Wolverhampton) Ltd.—439, 441 GG

**• Refrigeration Equipment**  
Easiclec Porcelain-Enamel (1938) Ltd.—  
—177 H/G 208 J/G  
Eustace & Partners Ltd.—41 C/G

**• Reinforced and Prestressed Concrete**

Cooke, J. & Son (Huddersfield) Ltd.—  
532 NG

Costain Concrete Co. Ltd.—314, 315  
Q/N

Ellis, John & Sons Ltd.—285 O/N

Johnson's Reinforced Concrete Co.  
Ltd.—45 C/G

Marley Tile Co. Ltd.—181, 182 H/G,  
203, 204 J/G

Orlit Ltd.—600, 601, 602 EG

Prestressed Concrete Development  
Group—500, 501, 502, 503, 504,  
505, 506 NG

**• Reinforcement Fabrics**

Expanded Metal Co. Ltd.—95 E/G  
Johnson's Reinforced Concrete Engi-  
neering Co. Ltd.—45 C/G

Smith, D. F. & Co. Ltd.—513 NG

Twisteele Reinforcement Ltd.—80 D/G

**• Roofing Materials**

Anderson, D. & Son Ltd.—129 F/G

Ashdowns Ltd.—488, 490 GG

Bitumen Industries Ltd.—1 A/G  
Braby, Fredk. & Co. Ltd.—229 K/G

Briggs, William & Sons Ltd.—32, 33  
BG

British Plumber Ltd.—178 H/G, 207 J/G

Cole, W. H. (London) Ltd.—232 K/G

Durasteel Ltd.—316 Q/N

Eastwoods Specialists Ltd.—154 G/G

Furniss & Co.—534 NG

Harvey, G. A. & Co. (London) Ltd.—  
150, 151 G/G

Heywood, W. H. & Co. Ltd.—484,  
486 GG

Highways Construction Ltd.—56 C/G

Holloway Metal Roofs Ltd.—462 GG

Holoplast Ltd.—615 EG

King, J. A. & Co. Ltd.—134 F/G  
Limmer & Trinidad Lake Asphalt Co.  
Ltd.—128 F/G

Metal Sections Ltd.—147 G/G

Nuralite Sales Ltd.—248, 249 L/G

Ronald, S.W. & Co. (London) Ltd.—  
466 GG

Ruberoid Co. Ltd.—308, 309 Q/N

Turners Asbestos Cement Co. Ltd.—  
28, 29 B/G

**• Rubber**

British Rubber Development Board—  
34 B/G

Burton Ltd.—15 A/G

Semtex Ltd.—101 E/G

Tyre Products Ltd.—509 NG

True-Crete Ltd.—II A 4

Turner, Charles & Son Ltd.—131 F/G.

**• Structural Steel Work and Metal Joists**

Benefi Steel Co. Ltd.—45 C/G

Gardiner Son & Co.—89 D/G

Metal Sections Ltd.—147 G/G

Sommerfelds Ltd.—113 E/G

Thompson, John, Beacon Windows  
Ltd.—298 P/N

**• Tarpaulins**

Cayless Bros. (Battersea) Ltd.—17,  
B/G

Prichard, R. W. (Mfg.) Ltd.—496 (GG)

Smith, John & Co. (London) Ltd.—  
43 C/G

Stephens & Carter Ltd.—326 R/N

Youngman, W. C. Ltd.—176 H/G,  
209 J/G, 218 K/G

**• Theatre Tickets**

Prowse, Keith & Co. Ltd.—236 L/G

**• Tools**

British Building & Engineering Appli-  
ances Ltd.—164, 165 G/G

Churchill, H. & D. Ltd.—385 X/E

Deaves, R. J.—415 (GG), 541 NG

Impregnated Diamond Products Ltd.—  
377 X/E

Key Engineering Ltd.—69 D/G

Lawler, Ayres & Co. Ltd.—279 O/N,  
430, 440 GG

M.E. Engineering Ltd.—42 C/G

Philplug Products Ltd.—220 K/G

Rawplugs Co. Ltd.—242 L/G

Reed, A. Elder & Co. Ltd.—157 G/G

Ruddick, Harold G. & Co. Ltd.—515  
NG

Shaw, A. & Son (Diamonds) Ltd.—  
459 GG

Shetack Tool Works Ltd.—344 S/M

Skarsten Manufacturing Co. Ltd.—  
429 GG

Tubela Engineering Co. Ltd.—466 GG

Youngman, W. C. Ltd.—176 H/G,  
209 J/G, 218 K/G

**• Tools—Power Driven**

Adam & Harvey (Rapid Hammer) Ltd.—  
319 R/N

Bridges, S. N., & Co. Ltd.—323 R/N

British Equipment Co. Ltd.—210 J/G,  
175 H/G

Central Tool & Equipment Co. Ltd.—  
422 GG

Churchill, H. & D. Ltd.—385 X/E

Cole, E. R. Ltd.—435 GG

Consolidated Pneumatic Tool Co. Ltd.—  
215, 216 K/G

Flexible Drive & Tool Co. Ltd.—  
214 K/G

Flexotool, Engineering Co. Ltd.—35 B/G

Impregnated Diamond Products Ltd.—  
377 X/E

Kango Electric Hammers Ltd.—  
179 H/G, 204 J/G

Philplug Products Ltd.—220 K/G

Rawplugs Co. Ltd.—242 L/G

Reed, A. Elder & Co. Ltd.—157 G/G

Ruddick, Harold G. & Co. Ltd.—  
515 NG

Tyack, S., & Son Ltd.—425, 427 GG

Ward, Thos. W., Ltd.—170 H/G

Warsop Power Tools Ltd.—219 K/G

Wolf Electric Tools Ltd.—489, 491 GG

**• Valves**

Conex Terna Ltd.—75 D/G

Crane Ltd.—248 N/N

Gulf Radiators Ltd.—244 L/G

Peerless Built-in Furniture Ltd.—  
41 B/G

Victory Valves Ltd.—433 GG

**• Venetian Blinds & Jalousies**

Avery, J. & Co. (Est. 1834) Ltd.—  
414 GG

Crittall Manufacturing Co. Ltd.—  
98 F/G

Danaura Ltd.—547, 549 NG

Holcon, Ltd.—47 C/G

Hope, Henry & Sons Ltd.—90, 91 D/G

Metal Sections Ltd.—147 G/G

Venetian Vogue Ltd.—317 Q/N

**• Ventilators and Space Heating Equipment**

Cole, E. R. Ltd.—435 GG

Cole, W. H. (London) Ltd.—232 K/G

Copperad, Ltd.—124 F/G

Flexaire, Ltd.—143 G/G

Frenger Ceilings Ltd.—529 NG

Greenwoods & Airvac Ventilating Co.  
Ltd.—192 H/G

Ide, T. & W., Ltd.—287 O/N

Radiation Group Sales Ltd.—264 M/N

**• Wall Boards, Panelling and Wallpapers**

Air screw Co. & Jicwood Ltd.—548 NG

Berry, J. & Sons Ltd.—413 GG

British Plaster Board.—94 E/G

British Plumber Ltd.—178 H/G, 207 J/G

Bryce White & Co. Ltd.—93 E/G

Celacite & British Uralite Ltd.—  
248 L/G

Celotex Ltd.—30 B/G

Compactum Ltd.—538, 540 NG

Creffield, C. V. & Co. Ltd.—428 GG

Gyproc Products Ltd.—149 G/G

Mallinson, Wm. & Sons Ltd.—100 E/G

Masonite, Ltd.—187 H/G, 198 J/G

Meyer, Montague L., Ltd.—306 Q/N

Moulded Components (Jablo) Ltd.—  
522 NG

Panelwood Ltd.—493 GG

Stramit Boards, Ltd.—237, 238 L/G

Thames Board Mills Ltd.—525, 527 NG

Warerite Ltd.—81 D/G

Williams & Williams Ltd.—83 D/G

**• Water Softeners**

Economic Water Softeners Ltd.—  
24 B/G

**• Windows and Wall Cladding**

Bath & Portland Stone Firms Ltd.—  
42 C/G

Benton, Edward & Co. Ltd.—400 GG

British Art Tile Co. Ltd.—270 A/N

Cape Asbestos Co. Ltd.—261 M/N

Colt, W. H. (London) Ltd.—232 K/G

Neolite Ltd.—188 H/G

Orlit Ltd.—400, 601, 602 EG

Pilkington Bros. Ltd.—133 F/G

Turners Asbestos Cement Co. Ltd.—  
28, 29 B/G

Williams & Williams Ltd.—83 D/G

**• Wire Products (Nails, etc.)**

Harvey, G. A. & Co. (London) Ltd.—  
150, 151 G/G

Holcon Ltd.—47 C/G

Penfold Fencing & Engineering Ltd.—  
44 C/G

Smith, D. F. & Co. Ltd.—513 NG

Vulcan Manufacturing Co. (Wolver-  
hampton) Ltd.—439, 441 GG

**• Wood Wool Slabs**

Marley Tile Co. Ltd.—181, 182 H/G

203, 204 J/G

Thermacoust Ltd.—89 D/G

**• Woodworking Machinery**

Brookman, R. S. Ltd.—390 Y/E

Cooksey, A. & Co. Ltd.—384 X/E

Danckaerts Woodworking Machinery  
Ltd.—396 Y/E

Dominion Machinery.—362 V/E

G. L. Machinery Ltd.—394 Y/E

Houghton Engineers Ltd.—358 U/F

Interwood Ltd.—389 Y/E

Kine Engineering Co. Ltd.—392 Y/E

Liner Concrete Machinery Co. Ltd.—  
271 N/N

Midland Saw & Tool Co. Ltd.—376  
X/E

Osmann, Wm.—469, 471 J/G

Parry & Sons (Tools) Ltd.—423 GG

Pickles, John, & Son (Engineers) Ltd.—  
368 V/E, 369 W/E

Roberts, David, & Co. (Engineers)  
Ltd.—68 D/G

Robinson, Thomas, & Son, Ltd.—  
367 V/E, 370 W/E

Rye Engineering Works (High  
Wycombe) Ltd.—383 X/E

Sagar Developments Ltd.—388 U/E

Sagar, J., & Co. Ltd.—366 V/E, 371  
W/E

Stenners of Tiverton Ltd.—365 V/E

Teles Smith Ltd.—514, 516 NG

Tong, M. P.—355a NG

Tyzack, S., & Son Ltd.—425, 427 J/G

Wadkin Ltd.—359 U/E

Ward, Thos. W., Ltd.—170 H/G

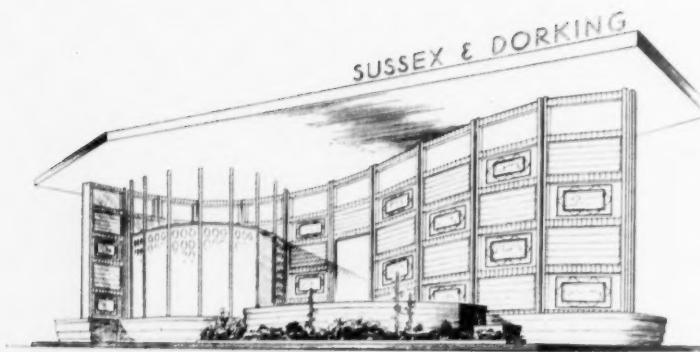
White, Thos., & Sons Ltd.—364 V/E,

373 W/E

Whiteshill Spindle Tools Ltd.—398 Z/E

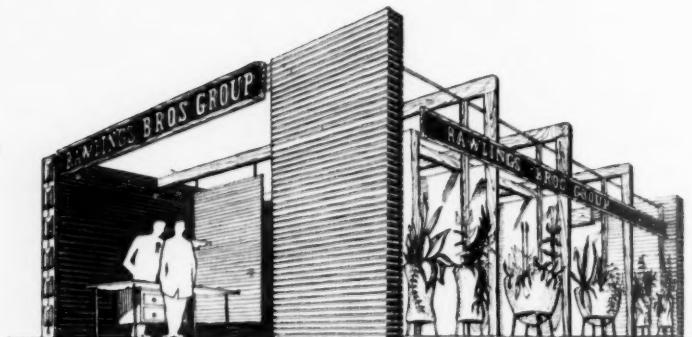
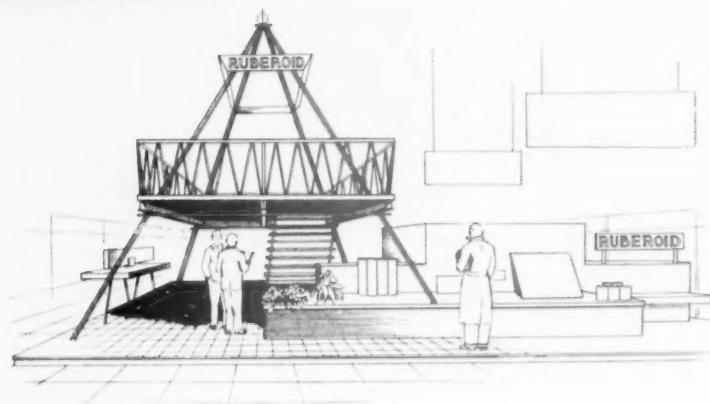
Wilson Bros. (Leeds) Ltd.—375 W/E

Wolf Electric Tools Ltd.—489, 491 GG



The Sussex and Dorking Brick Co. Ltd.'s stand designed by Lanchester & Lodge. The curved display wall is constructed of pre-fabricated brick panels in varying colours, inset in dark brown brick frames. These brown brick frames are units within an exposed cream tubular framework. The curved wall screening the office is of octagonal tiles; tables are brickwork with birch tops; seats are upholstered.

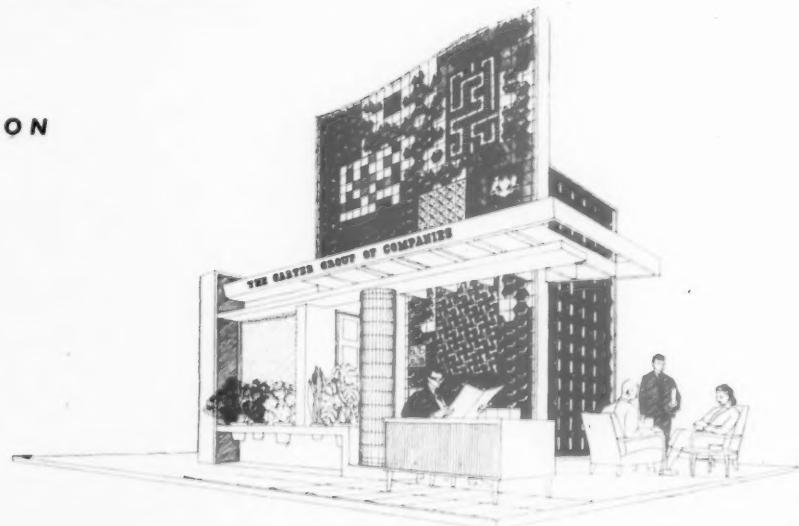
**Stand for Ruberoid Ltd.** designed by Eric Brown, L.R.I.B.A., M.S.I.A. The stand is designed to give a comprehensive display of products and specifications under working conditions. The second tier shows the Ruberoid Steel Deck and the Ruberoid Aluminum Deck, the original system of lightweight metal roof decking. Mineral Surfaced Roofing and Strip Slates in a variety of colours are prominently displayed.

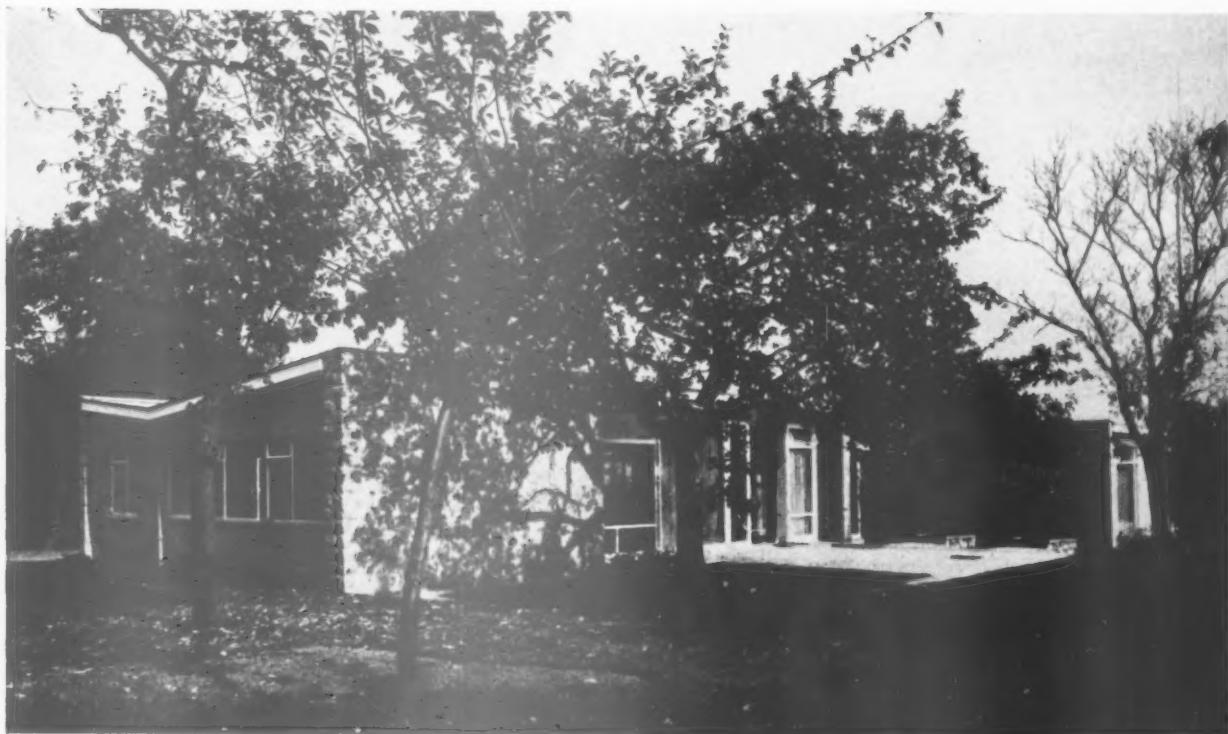


This stand is of unusual interest as it was designed by Mr. R. H. Gordon, a Second Year Student of the Hammersmith School of Building. Rawlings Bros. Ltd. of South Kensington decided to run a Competition in which Students of the Hammersmith School of Building were invited to submit a design for the Company's stand in the Building Exhibition. The Sponsors enlisted the assistance of Mr. Wells Coates, O.B.E., F.R.I.B.A., who acted as Assessor, and the Competition was run in accordance with the rules laid down by the R.I.B.A.

## STANDS AT THE BUILDING EXHIBITION

**The stand of Carter Ltd.** is designed by A. B. Read, R.D.I., A.R.C.A., Director of Design to the Carter Group of Companies, with Christopher Read, A.R.I.B.A., as consulting architect. The stand is a composition in materials—decorated and plain wall tiles, floor tiles, marble, terrazzo and magnesite flooring. The range of these products has been increased and improved technically since the 1951 Building Trades Exhibition.





View from south-west

## HOUSE AT OTHAM, Near Maidstone

Architect: BRIAN PEAKE, F.R.I.B.A., A.A.Dip.(Hons.)

Assistant: M. E. WOODFORD

Quantity Surveyors: JOSLING & HAMLYN

**T**HIS house has been designed by the architect for his own use. The site consists of an orchard of approximately one acre on the western side of a lane running north and south. The orchard contains some fine old fruit trees and slopes gently towards the lane on the east. A high degree of privacy is obtained on this site which is in the centre of a small Kent village.

The house was planned and carefully positioned on the site so that as many as possible of the rooms could enjoy a fine view of the Pilgrims' Way and at the same time have a sunny aspect. The Living-room has full height glass for the whole length of its southern wall, part of which can slide aside to give access to the terrace. The large roof overhang over these windows prevents excessive entry of the sun in summer. The sliding door, which weighs several cwt owing to the double glass, runs on ball-bearing runners on a rubber-covered track. The terrace is flush with the Living-room floor so that trolleys, etc., can be wheeled out. The terrace is a sun-trap facing south-west, being protected on the east by the projecting Bedroom wing. The Living-room fireplace is so planned on the north side of this room to make it possible to sit round the fire and enjoy the view through the window in the east wall. Indeed, the view is seen through this window from all parts

of the Living-room. The sill level, by virtue of the changes of level between the drive, Hall and Living-room, is above the eyeline of people in the drive.

Off the Entrance Hall are planned the Main Bedroom, Bathroom and Dressing-room/Study, all facing east (and the view) and the Bedroom has, in addition, a large window facing south and a door opening on to the garden.

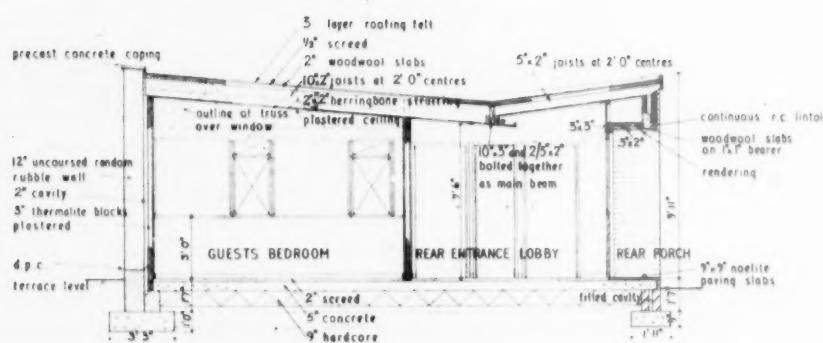
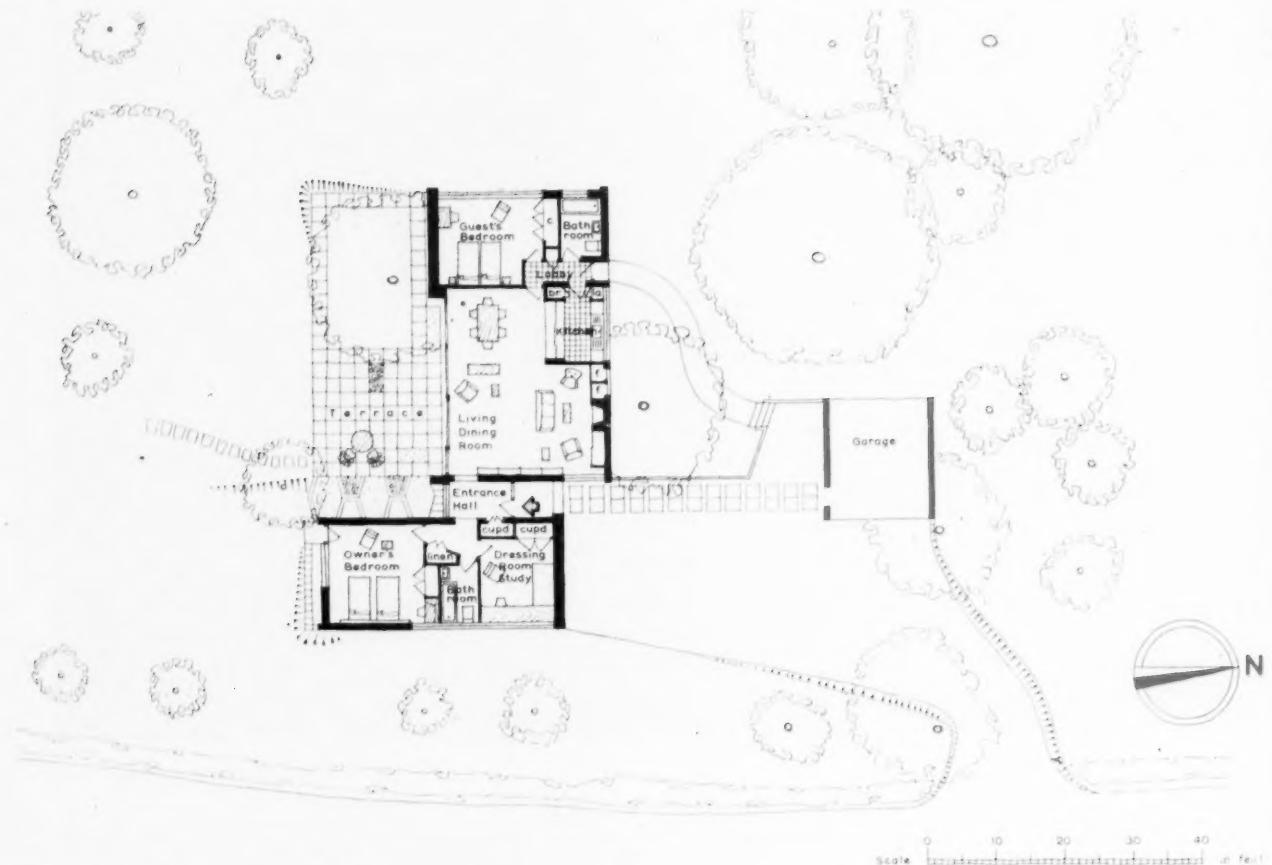
The Guest Bedroom and Bathroom are planned as a separate and private suite at the other end of the house facing west. This accommodation can, if necessary, be used for living-in staff.

A small kitchen is connected to the dining end of the Living-room by a fitting containing a hatch and two-way cupboards and drawers. Adjacent is a two-way cupboard through which a service trolley can be passed (and in which the trolley is stored).

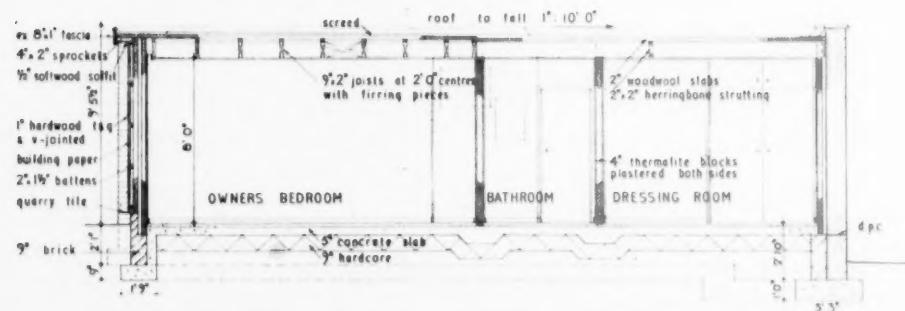
### Construction

Walls are of cavity construction, the inner skin consisting of high insulation value Broad-Acheson blocks, the outer skin of either local multi-colour facing bricks, Kentish Rag-stone (from a quarry two miles away) or blocks rendered with a pale blue-grey cement render. Metal and wood windows are painted white.

[Continued on page 573]



SECTIONS SOUTH TO NORTH THROUGH WINGS. SCALE: 1 in = 1 ft.



## HOUSE AT OTHAM

*Continued from page 571*

Floors are solid concrete covered with a screed containing embedded resistance wire radiant heating and are finished mostly with seamless close carpeting, with random joint multi-colour marble paving in the Hall.

Flat roofs are of timber construction covered with 2in woodwool, screed and patent roofing felt with white spar finish. The roofs are so designed as to discharge into one small length only of gutter over the front porch. Roof shapes are expressed internally. In the Living-room not only does this open up the room to the sun but increases the apparent size of the room. The main part of the Living-room ceiling is finished with Unitex V-jointed insulating board which, in addition to its insulation and sound-deadening properties, provides an interesting pattern on a large, unbroken area.

All large panes of glass are in Insulight double-glazing.

Heating and hot-water heating, together with cooking and refrigeration, is by electricity, which was chosen for its cleanliness and complete lack of need for any attention. The heating is, in fact, left permanently switched on winter and summer. This radiant floor heating is thermostatically controlled. The water heaters and the towel-rails in Kitchen and Bathrooms are also thermostatically controlled, the latter providing heat to these two rooms. There are 12 thermostats in the house.

### Furnishing

The furnishing throughout has been either selected or designed especially by the Architect. The two-way fitting between the Kitchen and Living-room is in Honduras Mahogany with pale blue Warerite door panels and a pale grey Warerite work-top into which is set a flush hot plate. A part of the local survey map is impregnated into the Warerite facing to one of the doors.

Fitted cupboards in the Kitchen are painted white with pale grey Warerite work-tops. The ceiling is pale yellow and the floor two shades of warm brown/red Semtex tiles. Curtain track is fitted in all rooms in built-in recesses above windows.

The cost of the house without any furniture or fittings and without the landscape work was just over £5,000.

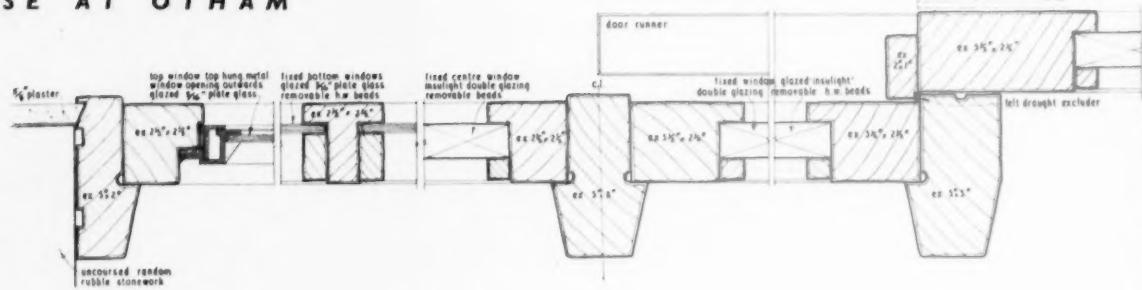
### General Contractor: G. E. Wallis & Sons Ltd.

*Bricks: Medway Valley Brick Co. Bricks for fireplace: Stonehenge Brick Co. Door furniture: A. J. Binns & Co., Ltd. Double Glazing: Pilkington Bros. Electrical: G. E. Wallis (Electrical), Ltd. Electric water heaters: Aidas, Ltd. Fabrics: David Whitehead. Furniture & furnishings: William Perring & Co., Ltd.; Hille of London, Ltd.; Dunn's of Bromley; Ernest Race. Garden work, driveway & terrace (to architect's design): Arthur Charlton & Sons, Ltd. Heating: Dulrae, Ltd. Interior Plants: West End Flower House. Kitchen floor: Semtex, Ltd. Light fittings: Troughton & Young; Courtenay, Pope, Ltd. Marble flooring: Art Pavements, Ltd. Metal windows: Williams & Williams, Ltd. Roofing: D. Anderson & Sons, Ltd. Sanitary fittings: W. N. Froy & Sons, Ltd. Sliding door gear: Silent Gliding Doors, Ltd. Stone: A. H. Hooker & Sons, Ltd. Venetian blinds: J. Avery & Co. Wallboard ceiling: Merchant Trading Co., Ltd. Wallpaper: Sanderson, Ltd. Furniture designed by the Architect: Mahogany dining-chairs, low tables, painted bookcase fitting, upholstery, Sycamore headboard fitting (Bedroom I); F. W. Clifford, Ltd. Sycamore fitted dressing-table, painted cupboard (Bedroom I). Kitchen and Livingroom fitting: A. E. Franks.*

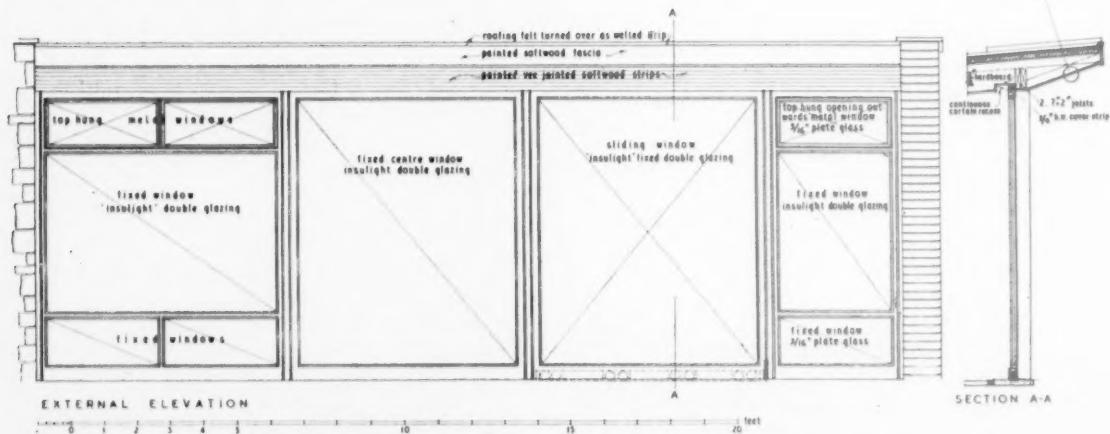
**These three views show the vista from the garage, through the front door and entrance hall to the ornamental flower beds on the east side of the terrace.**

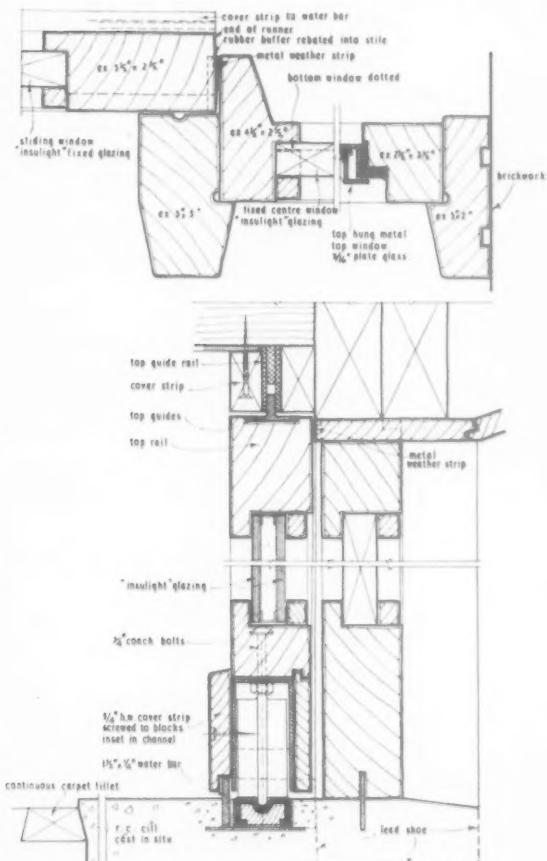


## HOUSE AT OTHAM



### Details of Living-Dining Room Windows

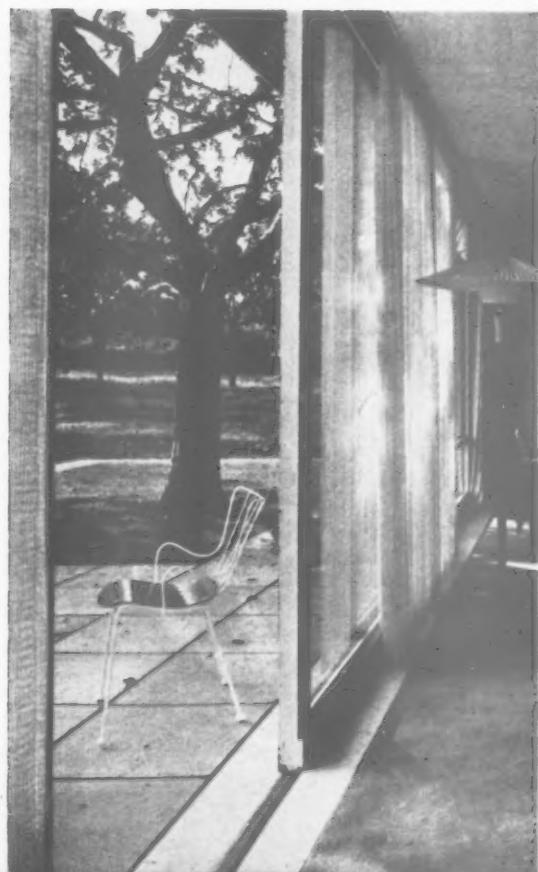




Owner's Bedroom

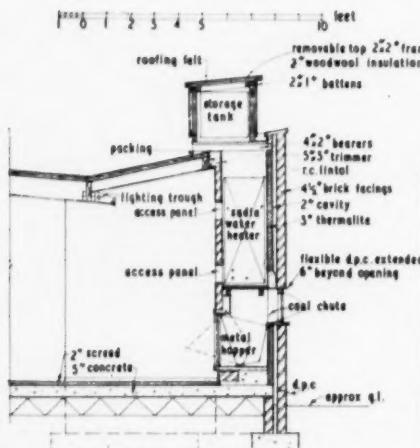


Kitchen

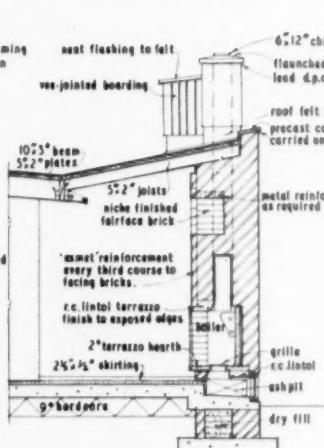
Owner's  
Bathroom

## HOUSE AT OTHAM

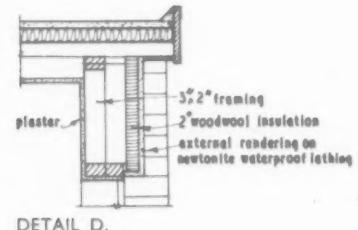
## Details of fireplace and eaves



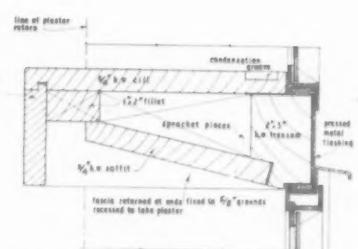
SECTION A-A



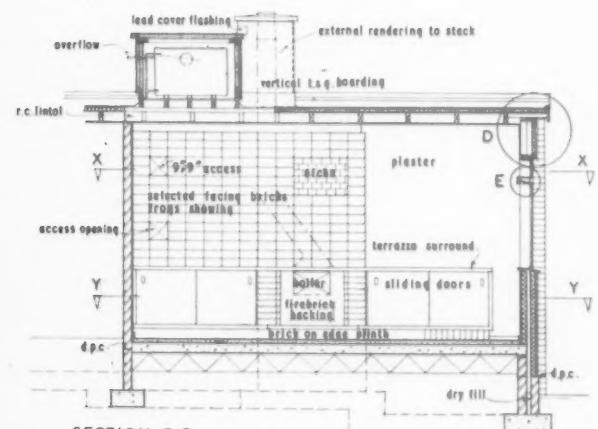
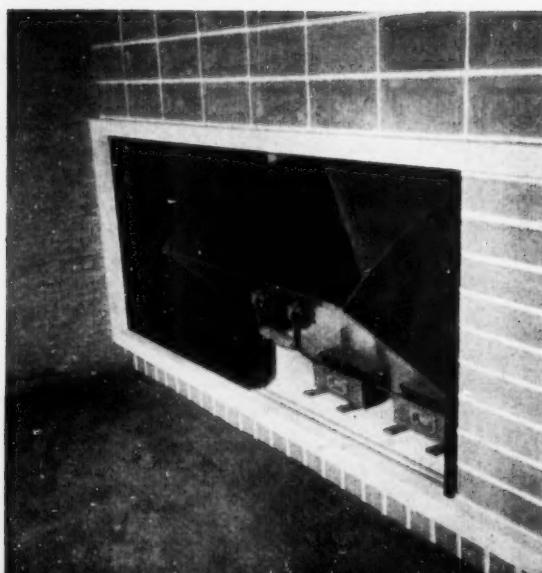
SECTION B-B



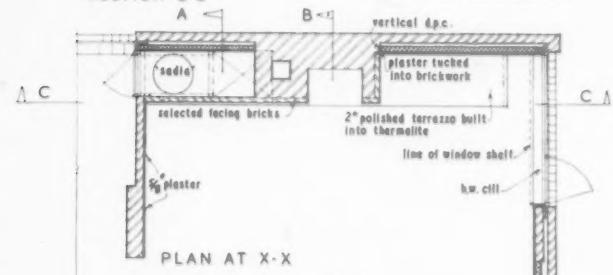
DETAIL D.



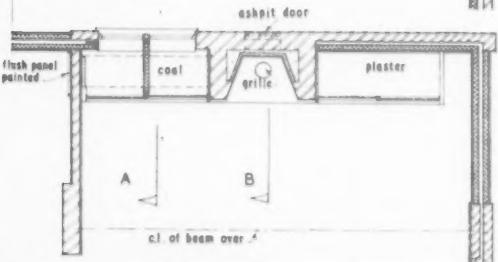
DETAILS OF WINDOW SHELF E.



SECTION C-C



PLAN AT X-X



PLAN AT Y-Y

## A LOGICAL APPROACH TO

# Colour

The imaginative use of colour has been one of the most distinctive features of development in architectural technique of the last two decades.

A limiting factor in practice has been the absence of any absolute standard of colour classification and comparison. It is, therefore, with genuine pleasure that we can announce the successful outcome of several years of applied research in this field.

The Ministry of Education has standardised a range of 47 colours and classified them according to the Munsell system. Our technical experts were privileged to co-operate with the Ministry in making this selection, which we now produce from nine basic tinctures of proved fastness. The complete range is available in super-gloss and semi-gloss finishes, and a selection of colours can be supplied in flat oil paint, washable water paint and Vydok Emulsion finish.



The scope of this important development is described in a booklet entitled "**Colour with a purpose,**" which also contains much interesting matter concerning some of the latest developments in colour usage. A copy, together with a range of colour chips, will gladly be sent to any architect upon request.

The Ministry of Education has applied the name "Archrome" to the new colour range and has included much valuable data about it in their Building Bulletin No. 9 (Colour in School Buildings).



## D O C K E R   B R O T H E R S

*Makers of Paints, Lacquers and Varnishes for every purpose*

LADYWOOD • BIRMINGHAM 16



**COLOUR IN ROOFING**

New Factory at Crawley, Sussex, for  
A.P.V. Co., Ltd., designed by W.S. Atkins  
& Partners, London and roofed with  
Briggs Bitumetal, The Modern Develop-  
ment in Aluminium.

**R**oofs need no longer be laid in dull drab uninteresting finishes. Briggs Mineral Surfaced Roofings provide a range of attractive colours, each colour permanent and unfading, obtained from crushed natural minerals unaffected by time and weather.

This large modern factory, where roofing security is an important factor, is covered with a cap sheet of Green Mineral which harmonises pleasantly with surroundings.

Ask our nearest Area Manager for the latest  
technical details of Mineral Surfaced Roof-  
ings, adaptable for laying on any deck.

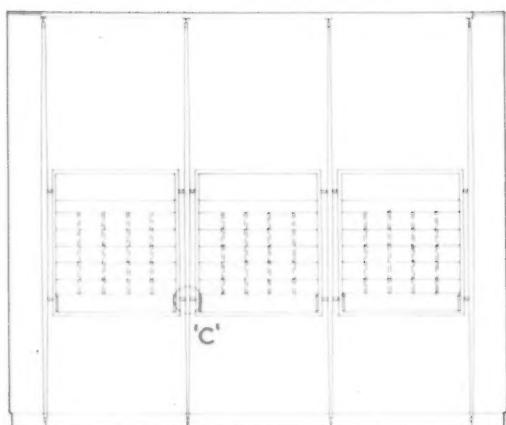
Interesting NEW  
developments in  
roof construction  
will be seen at  
**OUR STAND**  
No. 2333, Row  
"B," BUILDING  
EXHIBITION  
OLYMPIA.



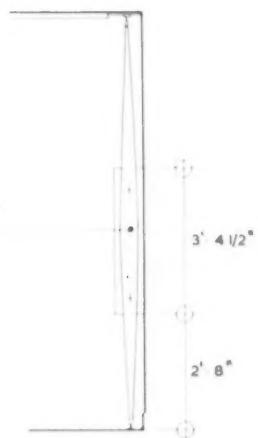
**WILLIAM BRIGGS & SONS LTD**

**London, Vauxhall Grove, S.W.8 Regd. Office Dundee**

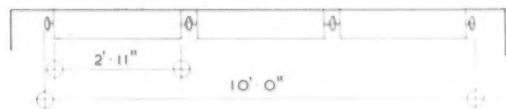
OFFICES & DEPOTS ALSO AT ABERDEEN • BELFAST • BRISTOL  
EDINBURGH • GLASGOW • LEICESTER • LIVERPOOL • NORWICH



FRONT ELEVATION



SECTION



PLAN

COLUMNS OF LAGOS  
MAHOGANY 5"x1 1/2" AT  
LARGEST SECTION

OUT OF 8 1/2"x1" ABURA

1/4" FILLETS AT EACH END

1/4" SOFTWOOD PAMPHLET  
DIVISIONS

5/16" BOLT THREADED TO  
CAP CASTING  
(BOLT RAGED FOR FLOOR  
FITTING TO CONCRETE)

PLASTER BOARD

CEILING BATTEN

3/16" PLATE GLASS

3/16" PLYWOOD

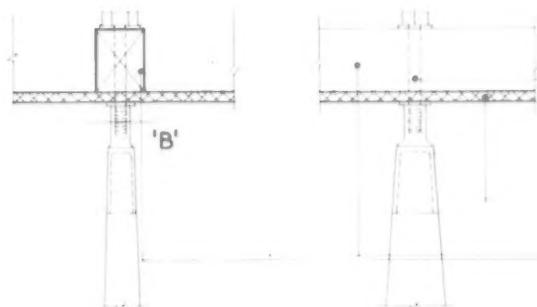
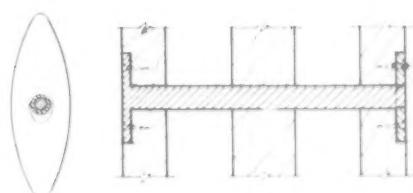
1/4" PLYWOOD BACK

1/4" FILLETS AT EACH END

SCREW THREAD TO FLANGE  
& STEM AT ONE END ONLY

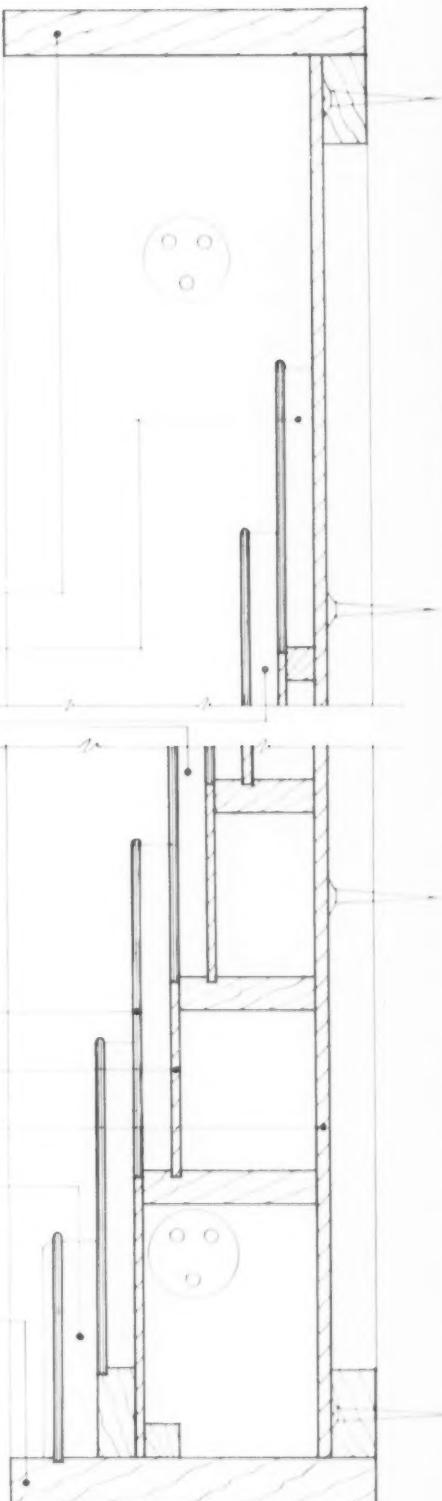
OUT OF 8 1/2"x1" ABURA

NOTE : ALL METALWORK  
IS IN SILVER ANODISED  
ALUMINIUM

DETAIL OF CAP FITTINGS  
ON MAHOGANY COLUMNSDETAIL  
AT 'B'

DETAIL AT 'C'

SCALES : 1/4" TO 1'-0"  
& 1/4 FULL SIZE

SECTION THROUGH  
PAMPHLET CASE

*Supplement to THE ARCHITECT and Building News, November 12, 1953*



PAMPHLET DISPLAY FITMENT, PADDINGTON  
RAILWAY EXECUTIVE, WESTERN REGION

## PRESERVATION OF HISTORIC CHURCHES

### Advisory Panels of Specialist Architects

THE Historic Churches Preservation Trust has set up advisory panels of architects, who have special competence in the repair of churches, to advise the Trust when grants are to be made. These panels have been set up after consultations between the Trust, the Central Council for the Care of Churches and the Royal Institute of British Architects.

The panels cover the whole of England, which for this purpose is divided into eleven regions, each region including a group of dioceses and having a separate panel. The Trustees have among their number two architects with wide experience in the repair or building of churches, Mr. Walter H. Godfrey, C.B.E., F.S.A., F.R.I.B.A. and Mr. Edward Maufe, R.A., F.R.I.B.A., and, as their advice is always available to their fellow Trustees, they are not included in the regional panels. The following specialist architects are being invited to serve on the panels.

#### SOUTH-EASTERN REGION

*Dioceses: Canterbury, Chichester and Rochester.* Proposed Panel: W. H. Ansell, M.C., F.S.A., P.-R.I.B.A.; W. E. Godfrey, A.R.I.B.A.; D. Nye, L.R.I.B.A.; A. B. Knapp-Fisher, F.S.A., F.R.I.B.A.

#### LONDON REGION

*Dioceses: London, Chelmsford and Southwark.* Proposed Panel: W. Godfrey Allen, F.R.I.B.A.; S. E. Dykes Bower, F.S.A., F.R.I.B.A.; Alban Caroe, F.R.I.B.A.; Leslie T. Moore, M.C., F.R.I.B.A.; Professor A. E. Richardson, R.A., F.R.I.B.A.

#### EAST ANGLIA REGION

*Dioceses: Ely, Lincoln, Norwich, St. Edmundsbury and Ipswich.* Proposed Panel: Lawrence H. Bond, I.R.I.B.A.; H. C. Hughes, F.R.I.B.A.; Laurence King, F.R.I.B.A.; Marshall Sisson, F.S.A., F.R.I.B.A.; Arthur Welford, F.S.A., A.R.I.B.A.

#### SOUTH MIDLAND REGION

*Dioceses: Oxford, Leicester, Peterborough, St. Albans.* Proposed Panel: Frederick Etchells, F.R.I.B.A.; Hope Bagenal, D.C.M., F.R.I.B.A.; Professor A. E. Richardson, R.A., F.R.I.B.A.; Thomas Rayson, F.S.A., F.R.I.B.A.

#### MIDLAND REGION

*Dioceses: Birmingham, Coventry, Derby, Lichfield, Southwell.* Proposed Panel: P. B. Chatwin, F.S.A., F.R.I.B.A.; J. E. M. Macgregor, F.S.A., F.R.I.B.A.; G. C. Pace, F.S.A., F.R.I.B.A.; Francis W. B. Yorke, F.R.I.B.A.

#### WELSH BORDER REGION

*Dioceses: Gloucester, Hereford and Worcester.* Proposed Panel: W. H. Randoll Blacking, F.S.A., F.R.I.B.A.; Major H. Stratton Davis, M.C., F.S.A., F.R.I.B.A.; D. G. Martin, A.R.I.B.A.;

Robert Potter, F.R.I.B.A.; E. A. Roiser, L.R.I.B.A.

#### WESTERN REGION

*Dioceses: Bath & Wells, Bristol, Exeter, Salisbury and Truro.* Proposed Panel: W. H. Randoll Blacking, F.S.A., F.R.I.B.A.; H. M. R. Drury, F.R.I.B.A.; G. D. Gordon Hake, F.R.I.B.A.; Allan Reed, A.R.I.B.A.; P. Hartland Thomas, F.R.I.B.A.

#### SOUTH-WESTERN REGION

*Dioceses: Winchester, Guildford and Portsmouth.* Proposed Panel: J. L. Denman, F.R.I.B.A.; Lord Mottistone, F.R.I.B.A.; B. C. G. Shore, L.R.I.B.A.

#### LANCASHIRE & CHESHIRE REGION

*Dioceses: Blackburn, Chester, Liverpool and Manchester.* Proposed Panel: L. R. Foreman, A.R.I.B.A.; Bernard Miller, F.R.I.B.A.; William A. Singleton, A.R.I.B.A.; Sir J. H. Worthington, A.R.A., F.R.I.B.A.; W. Cecil Young, F.R.I.B.A.

#### YORKSHIRE REGION

*Dioceses: York, Bradford, Ripon, Sheffield and Wakefield.* Proposed Panel: Francis Johnson, F.R.I.B.A.; G. C. Pace, F.S.A., F.R.I.B.A.; K. Ward, F.R.I.B.A.

#### NORTH-EASTERN REGION

*Dioceses: Durham, Carlisle, Newcastle.* Proposed Panel: C. B. Martindale, F.R.I.B.A.; Francis Johnson, F.R.I.B.A.; Ian G. Lindsay, F.R.I.B.A.

In forming these panels an effort has been made to select for each region a small group of senior architects, held in respect throughout the profession, who either live in the region or are specially connected with it by their practice.

The main purpose of this organization is to ensure that money granted by the Trust will be wisely spent. Long experience has shown the supreme importance of entrusting the repair of historic churches to men who have the aptitude and special knowledge needed for the work. The reproach of tasteless restoration and of vandalism which has attached to so much work in the past must be ended and this scheme of advisory panels is designed to ensure that all church-repair aided by the Trust shall be carried out on principles that are generally approved by informed opinion.

These panels are not intended to provide lists of architects recommended for the carrying out of repairs. Each parochial church council will remain free, as now, to engage the architect of its choice. Lists of architects who have had experience in the care and restoration of churches have been compiled by the Royal Institute of British Architects in consultation with its allied societies, and the Trustees are considering with the Central Council for the Care of Churches the best use to which this material can

be put. The Trust will make it a condition of a grant that a competent architect shall be employed to superintend and direct the work, but will not attempt to influence the choice. Membership of a panel will not, of course, debar any architect from accepting a commission to repair a church in the normal course of his professional duties.

Where the architect is selected without the prior advice of the panel, the Trust will require that his name and particulars of his experience be submitted before a grant is made. These particulars will be submitted to one or more members of the panel, and in many cases will probably be sufficient to enable the choice of the architect to be approved. But if the selected architect is hitherto unknown, or if his experience has been in classes of work other than the repair of historical buildings, he will be asked to submit such reports, specifications and plans as the panel or member of the panel may require in order that his proposals and the methods which he intends to employ may be examined. The member of the panel will in this way be enabled to make such helpful suggestions as will ensure a satisfactory result; and the Trust is confident that this assistance of the panels, and any consultations that may follow, will be welcomed by all architects wishing to familiarize themselves with the principles that should govern sound reparations. The ultimate decision with regard to any action taken after advice has been received from members of a panel will rest with the Trustees, who will assume full responsibility for it.

#### T. & C.P.A. Conference

A conference on "Financial Problems of Planning," organized by the Town and Country Planning Association, is to be held in the Conference Hall, County Hall, London, on November 19 and 20. The Rt. Hon. Harold Macmillan, M.P., Minister of Housing and Local Government, is to open the Conference at 10.15 on Thursday, 19th, and will be followed by Mr. Desmond Heap on "Planning and £ s d," and Lord Silkin on "Compensation and Betterment." The following day's programme is to be opened by the Rt. Hon. Aneurin Bevan, M.P., and the speakers will be Sir Howard Roberts on "Problems of Industrial Evacuation," and Mr. F. J. Osborn on "Effect of Housing Subsidies."

#### R.I.B.A. Library Group Meeting

The next meeting of the Library Group will be held on Monday, November 16, at 6 p.m. at the Royal Institute of British Architects, 66, Portland Place, W.1.

The evening will be devoted to 19th century working class housing with special reference to the work of Henry Roberts. Mr. Arthur M. Foyle, A.R.I.B.A., will introduce the subject.

**LEGAL NOTE****Execution of Work Involving  
Interference with Party Structures**

**W**HERE a wall separates the building of one person from the building of another or is otherwise a "party wall" and work is contemplated by one of the owners which will involve interference with the wall, what are the respective rights of each owner? For this purpose the person who is desirous of executing the work is called "the building owner," while the person who is the owner of the adjoining property is called "the adjoining owner."

Thus, for instance two adjoining buildings belonging to different owners A and B may be divided by a single wall, which gives support to each building on either side. Suppose now that A wants to pull down his building and rebuild it, or to make alterations to it, and that the work contemplated will necessitate making an opening in the party wall, or cutting into it, or making it of a greater thickness, or otherwise interfering with it, what steps must A take and what are B's rights in the matter?

Before A is entitled to put the work in hand, he is required under the London Building Acts to observe the procedure there laid down, and if he fails to do so, in any respect, he may find himself in serious difficulty.

**Contents of Party Structure Notice**

The first thing he must do is to serve the adjoining owner with the appropriate "party structure notice." This notice must be clear and unambiguous; it must state the nature and particulars of the proposed work. Thus specifications and plans and drawings should accompany the notice so that the adjoining owner can know exactly what is proposed to be done. And further the notice must state the time at which the work will be begun.

If a notice does not comply with all these requirements it will be a bad notice and the building owner will not be entitled to commence the work. Here it may be said that it is not sufficient to serve a notice which merely sets out and copies the language of the Act itself about the kind of work which a building owner may do.

**Persons To Be Served With the Notice**

The Act requires this "party structure notice" to be served on "the adjoining owner." Where premises are let on lease and the tenancy is for a fixed period, and not one from year to year or for any less time, not only the landlord but also the tenant will satisfy the description of "the adjoining owner."

What has to be remembered is that every person who is in receipt of the rents from the adjoining property or any part of it, or who is in occupation of it as a tenant with a greater interest than that of a yearly tenant, *must* be served with the notice. It is of no use in such a case to serve only one of the adjoining owners whether he be the

landlord or the tenant; the building owner will still not be in a position to carry out the work.

**Counter Notice by Adjoining Owner**

The adjoining owner on receipt of the party structure notice may desire to object and to put forward counter suggestions, in which event he should serve a counter notice on the building owner indicating his objections and counter proposals. If the building owner does not consent to the counter notice a difference will automatically be regarded as having arisen between the two owners.

And where the adjoining owner expressly objects or fails to give his consent or within 14 days put forward counter proposals a difference will likewise arise which would have to be solved.

**Solution of Differences**

How are these differences to be settled? The Act lays down a special procedure. The first step will be the appointment of a surveyor to go into the matter. One surveyor only can be appointed if the parties agree. Otherwise each party will appoint his own surveyor and thereupon the two surveyors will appoint a third surveyor.

The surveyor or the surveyors as the case may be will have adjudicated on the matter, and they will make an award settling the dispute. The award may determine the right to execute any work, and the time and manner of its execution. The award further will deal with the costs incurred in connection with the award as well as the cost of the reasonable supervision of carrying out any of the work.

**Appeal Against Award**

The award will be conclusive unless an appeal is brought against it. The appeal will be to the County Court, and it must be brought within 14 days of the delivery of the award.

**Apportionment of Expenses**

Where work to a party wall is involved, the question of meeting the cost and expenses will arise. The Act provides for the apportionment of the expenses between the building owner and the adjoining owner or owners, though in some cases the expenses may have to be borne solely by the building owner. To take some instances: The building owner must himself bear the expense of *underpinning, thickening, raising or cutting* into any party wall. But in other cases in which the adjoining owner may be regarded as benefiting to some extent from the work done in relation to the party wall, the expenses will be apportioned between the building owner and the adjoining owner in proportion to the use which they respectively make of the wall, and in some cases to the thickness of the party wall which is required for support of their respective structures. Thus such an apportionment based on use would be made, where the wall has

to be made good, underpinned, thickened or repaired, or where it has to be demolished and rebuilt, *because of defects or want of repair in the wall*. And an apportionment based on use and extent of thickness for the purpose of support would be made where a timber or other partition which is not in conformity with the London Building Act has to be replaced by a proper party wall.

**The Estate of the late  
Sir Banister Fletcher**

Sir Banister Flight Fletcher, D.Litt., M.Arch., P.P.R.I.B.A., F.S.A., F.R.I.C.S., of 4 Whitehall Court, S.W., and 3, Kings Bench Walk, Temple, E.C., who died on August 17 last, left £115,520 16s 8d gross, £109,031 7s 3d net value (duty paid £54,167). He left:

£2,000 to the Society for the Protection of Ancient Buildings, upon trust to apply the income in or toward the provision of a scholarship to be known as "The Sir Banister Fletcher Scholarship" in memory of his father, brother Herbert, and himself.

£2,000 to the Architects' Benevolent Society, in memory of his father, said brother and himself, the income to be applied for the general purposes of the society but limited to Fellows or Associates or former Fellows or Associates of the R.I.B.A., or their widows.

£1,500 to the Worshipful Company of Carpenters, in memory of his father "who was one time Master of the Company and was the first chairman of the Company's Building Crafts Training School," said brother Herbert, who was surveyor to the Company and the first director of the said school, and himself, former master of and surveyor to the Company and director of the said school, the income to be applied in or towards annual medals or prizes for the said school, or such purposes as the Court of the Company think conducive to the technical training of craftsmen.

£1,500 each to the Royal Institute of British Architects, University College, London, for the Bartlett School of Architecture, and the Polytechnic School of Architecture, for the provision of prizes, in memory of his father, said brother and himself.

£1,500 to the Authors' Club, "in recognition of the pleasure I have derived from membership of that club," the income to be applied in or towards an annual prize for the book on architecture or the arts, which the committee of the club think most deserving.

£1,000 to the London Society, the income to be applied in or towards the provision of an annual lecture, to be known as "The Sir Banister Fletcher Lecture," on architecture, town planning, gardens or open spaces affecting the amenities of London.

£100 to the Royal Institute of Architects in Ireland for its general purposes, and the Hood and Gown of Master of Architecture of the National University of Ireland "which was presented to me by that Institute when that degree was conferred upon me."

After other bequests to friends and members of his family, the ultimate residue is left as to one-half to the Royal Institute of British Architects and one-half to The University of London.



## NEW GARAGE, STOCKWELL for the London Transport Executive

architects : ADIE, BUTTON & PARTNERS

in association with THOMAS BILBOW, F.R.I.B.A. Architect to the Executive  
consulting engineer: A. E. BEER, A.C.G.I., M.I.Struct.E., M.Cons.E.

LONDON TRANSPORT'S new garage at Stockwell is one of the garages constructed as an essential part of the recently completed scheme to replace London's remaining trams by buses and has been in part use since April, 1952.

The main requirement was for covered parking space for two hundred buses, together with all necessary facilities for inspection, fuelling, maintenance and repair work, operating offices, staff rooms, canteen, etc.

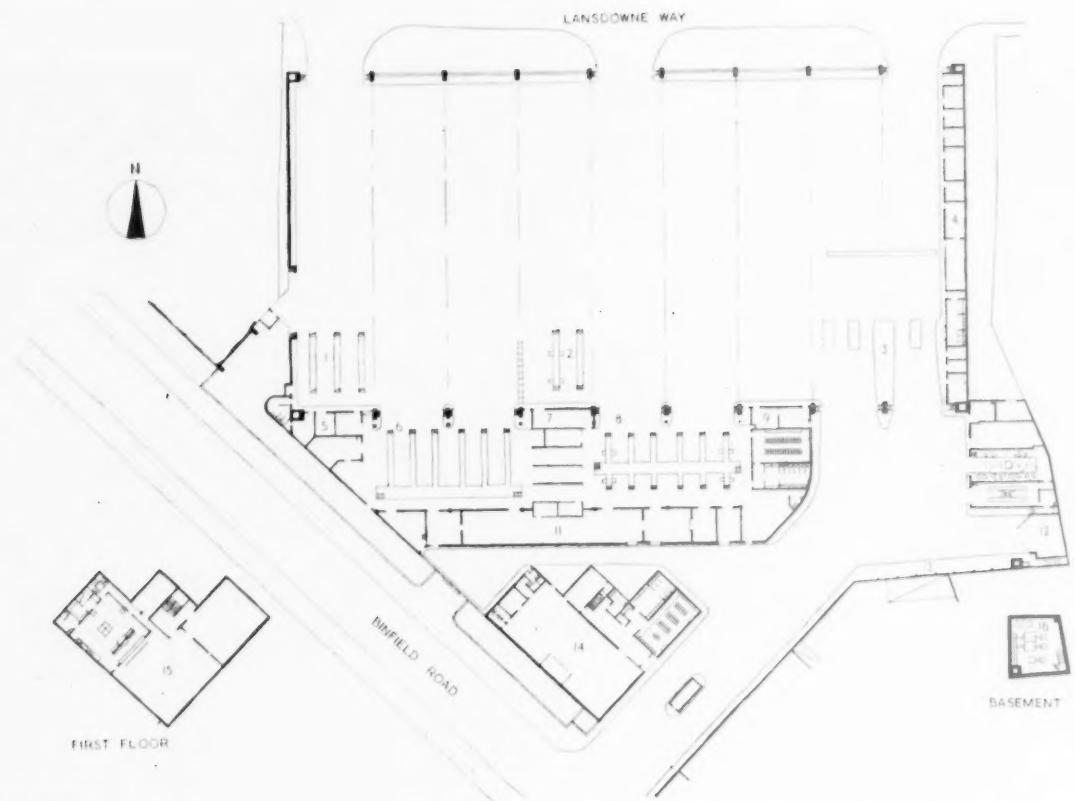
The choice of site was a good one for bus operation, as it is bounded by two wide roads—Binfield Road and Lansdowne Way—and only a short distance from an important intersection of main roads. It is an area once occupied by large houses but largely cleared by enemy action during the war.

The most important factor influencing the design was the need for the maximum unrestricted floor space to house the requisite large number of vehicles. This led to the adoption basically of one large garage construc-

ted in reinforced concrete arches to avoid the necessity for intermediate supports. Offices and staff rooms are in a separate block on the Binfield Road elevation.

In principle the layout follows the basic plan adopted by London Transport for post-war garages. At Stockwell, however, in order to obtain the maximum floor space in the irregularly shaped site available, the parking area was placed at the extreme north and the docking pits and repair shops along the East-West axis to the south, an arrangement which has kept the main repair pits clear of the parking area as well as enabling them to be enclosed by folding doors.

Buses enter the garage from Binfield Road, via a private access road which serves as a reservoir for vehicles and prevents traffic congestion in the public road. Refuelling and servicing are carried out at islands immediately inside the entrance and washing by machines placed just beyond the islands. Three vehicle exits are provided into Lansdowne Way.



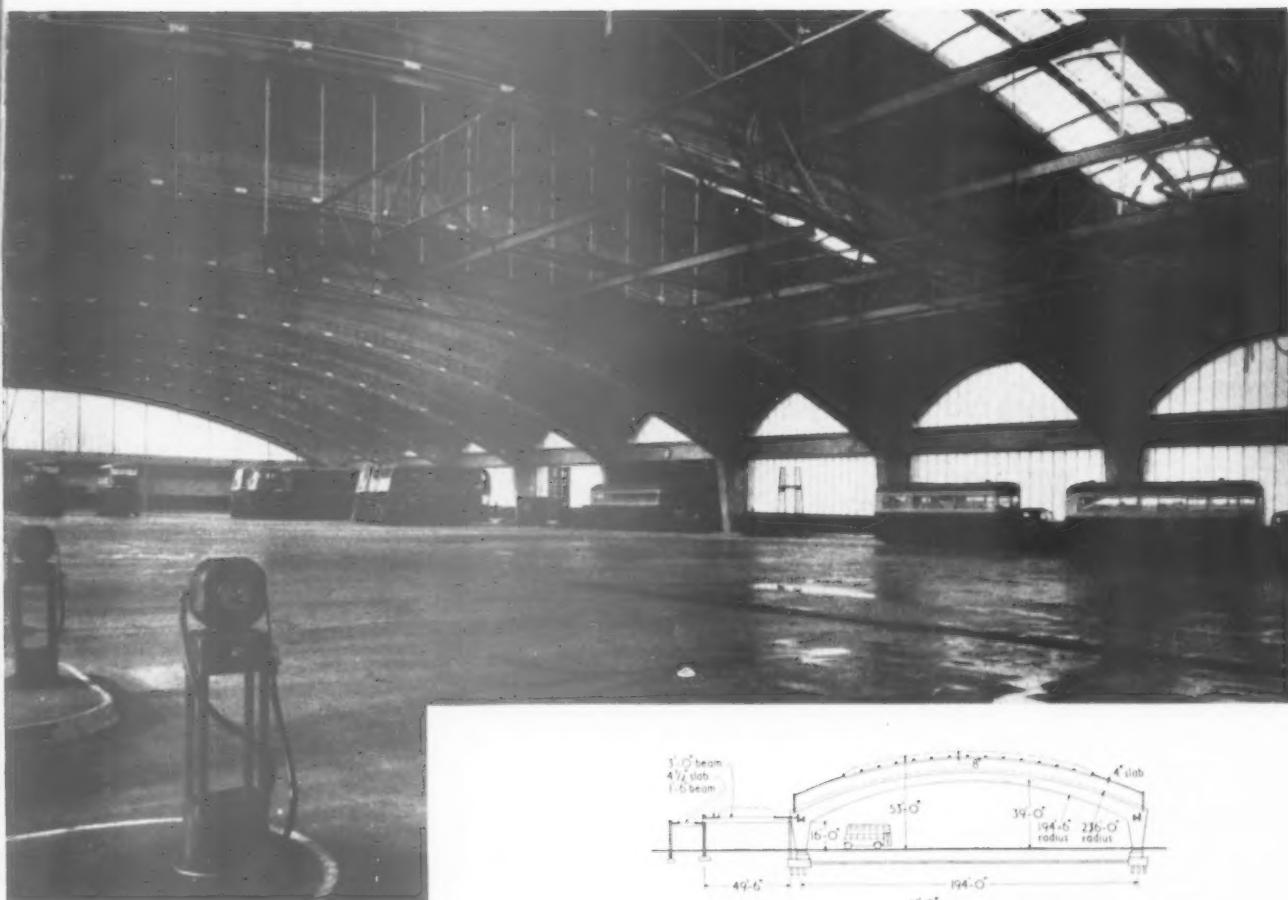
**Key to plans**

- |                                    |                                     |
|------------------------------------|-------------------------------------|
| 1. RUNNING SHIFT AND<br>ROTA PITS. | 9. ENGINEER AND MECH-<br>ANICS.     |
| 2. SERVICING PITS.                 | 10. FUEL OIL STORAGE.               |
| 3. FUEL PUMP ISLANDS.              | 11. STORES.                         |
| 4. STORES, VARIOUS.                | 12. FUEL BUNKER.                    |
| 5. TECHNICIANS.                    | 13. CYCLE STORE.                    |
| 6. INNER DOCKING PITS.             | 14. ADMINISTRATION.                 |
| 7. OIL STORE.                      | 15. STAFF RECREATION AND<br>DINING. |
| 8. MAJOR DOCKING PITS.             | 16. BOILER HOUSE.                   |

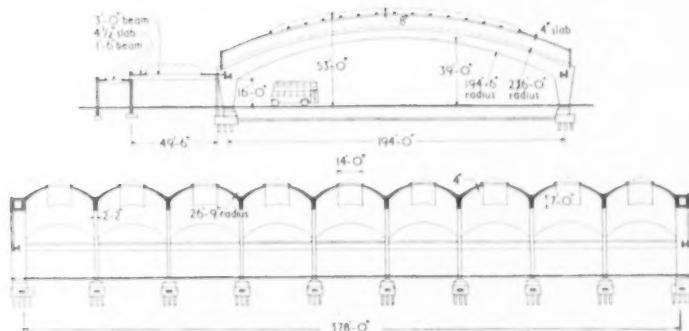


The main garage structure, 392ft long, consists of two-hinged reinforced concrete frames, at 42ft centres, of 194ft span. Connecting the arched frames and forming the main roof covering are nine reinforced concrete vaults, struck to a radius of 27ft, which cantilever from the arch ribs and permit of a natural lighting area of 140ft x 14ft in each 42ft bay, and an uninterrupted floor space of 73,350 sq ft. Passing across the roof-lights, at 10ft centres, are 6in wide reinforced concrete ribs designed to take care of out-of-balance loading arising from snow or other loads and thus prevent torsion on the main arch ribs.

All the internal arched frames are 26in wide and 7ft deep at the crown, increasing to 10ft 6in at the haunch and decreasing again to 6ft at floor ground level. The two end frames consist essentially of a member of the same dimensions as the internal ribs plus an external member 18in wide connected to the 26in rib by 12in slabs at top and bottom, to form a reinforced concrete box 8ft wide. This section assures the necessary stability and is designed to withstand any out-of-balance thrust arising from live loading conditions. Below floor level, the rib sections are widened out to provide increased stability, as the only longitudinal tie between the frames is the "H" beam at haunch level. This is carried round the four sides of the garage and also conceals the 9in cast-iron rain disposal pipe, the 6in sprinkler main; compressed air and water ring mains and electric lighting and clock conduits. From it, also, are hung the main entrance doors and those to the docking area. Expansion joints are provided in the "H" beam on each side of the garage.



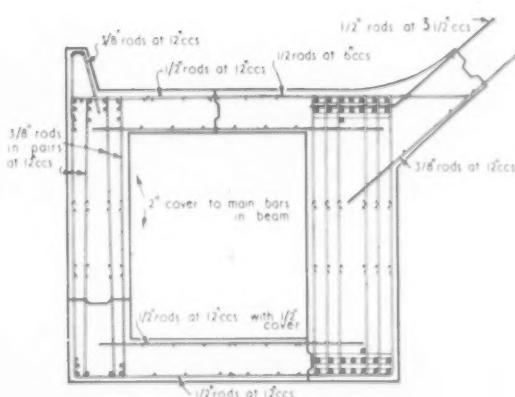
Above, and on the facing page, are two interior views of the bus garage. Right : Cross and longitudinal sections. Scale : One inch equals ninety-six feet. Below : A detail of the box-beam which occurs at each end of the structure. The joggles show the extent of one day's pour of concrete. Scale : One inch equals four feet.



Where the main frames sit on the pile caps, special hinges are provided, and the thrust arising from arch action is taken by steel ties (of 1½ in diam bars coated in bitumen and encased in concrete) connecting opposite pile caps.

The comparatively small section of the main frames made it essential to weld the main reinforcement instead of providing the customary laps and some 1,200 "V" butt welds were made in the arch ribs and ties connecting the pile caps. The single "V" type weld was adopted owing to the necessity for welding in position the several layers of main bars at the most critical section nearest the haunches. To minimize the weakness of a possible faulty weld, welding points for each layer were staggered and the positions arranged as far as practicable away from sections of maximum bending moment.

Concreting of individual sections was carried out in accordance with a pre-arranged schedule and throughout the main structure concrete was delivered by pump and vibrated with immersion vibrators. Construction joints were defined at the start of the work and, in the case of the vertical legs of the frames, no construction joints were allowed between hinge and haunch levels. Concrete mix for the main frames and connecting vaults was specified at



### STOCKWELL GARAGE

$1:1\frac{1}{2}:3$  nominal and elsewhere  $1:2:4$  nominal and design stresses throughout were in accordance with L.C.C. by-laws.

Lighting was designed by Messrs. J. H. Coombs & Partners and the lighting fittings in collaboration with Metrovick illuminating engineers.

The floors in the garage and docking areas are of granolithic finish. Around the parking area is a 5ft 6in high rendered dado painted with an oil and water resisting rubber-based paint, while the docking area has a dado of blue faience tiles. Lavatories have quarry tiled floors and a dado of glazed wall tiles. Above the dado the walls have been constructed in sand-lime bricks.

The heating and ventilation schemes for the garage were designed under the supervision of Mr. H. Carter, A.M.I.C.E., M.I.Struct.E., London Transport's Works Engineer.

#### GENERAL CONTRACTORS : Wilson Lovett & Sons, Ltd.

*Asphalt* : General Asphalt Co., Ltd. *Boilers* : Prior Stokers, Ltd. *Bricks* : Hall & Co., Ltd. *Central Heating* : G. N. Haden & Co., Ltd. *Cycle Stands* : Abix (Metal Industries), Ltd. *Demolition* : London Demolition Co., Ltd. *Electric Wiring* : T. Clark & Co., Ltd. *Electric Light Fixtures* : Metropolitan-Vickers Electrical Co., Ltd. *Faience* : Wiggins-Sankey. *Foundations* : Cementation Co., Ltd. *Frames to Attendant's Office* : W. James & Co., Ltd. *Fuel Tanks* : J. Bellamy, Ltd.; Tecalemit, Ltd. *Glazed Partitions, Windows and Window Furniture* : Mellownes & Co., Ltd. *Granolithic and Plaster Plastering*, Ltd. *Hoists* : A.C.E. Machinery, Ltd. *Jamery* : D. Burkle & Son, Ltd. *Linoletum* : Cellulin Flooring Co., Ltd. *Metalwork* : Light Steelwork (1925), Ltd.; George Wright (London), Ltd. *Patent Glazing* : Williams & Williams, Ltd. *Plastic Tiles* : Semtex, Ltd. *Plumbing* : Z. D. Berry & Co., Ltd. *Rolling Shutters* : G. Brady, Ltd. *Mather & Platt*, Ltd. *Roofing Felt* : Super Phalt, Ltd. *Sanitary Fittings & Door Furniture* : W. N. Froy & Sons, Ltd. *Signs* : Pearce Signs, Ltd. *Sliding Doors* : E. Hill Aldam & Co., Ltd. *Sprinklers* : Mather & Platt, Ltd. *Stonework* : South Western Stone Co., Ltd. *Structural Steel* : Concrete & Structural Products, Ltd. *Tiles* : Jaconello, Ltd. *Woodblock Flooring* : Improved Wood Pavement Co., Ltd.

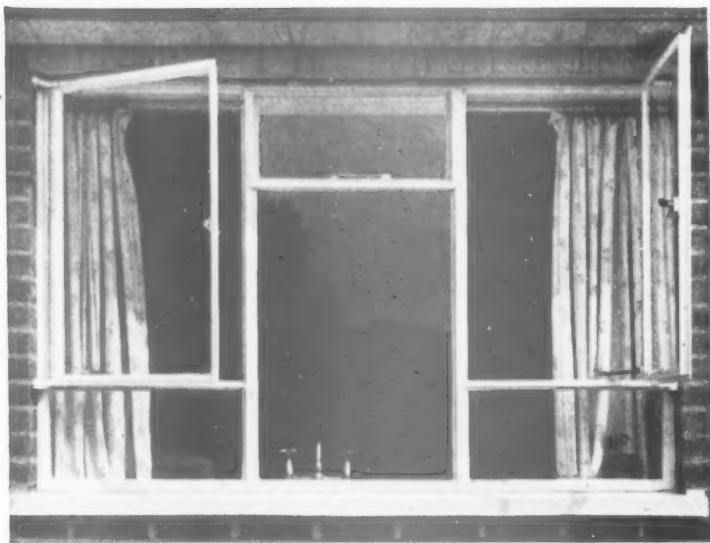


*The Conductors' paying-in counter in the traffic office.*

*One of the exits on Lansdowne Way.*



# CRITTALL WINDOWS



*many  
architects prefer  
“ZN” types*

In this new range of standard windows the height remains unaltered but the unit width has been increased from 1' 8" to 2' 0". With less brickwork and more daylight, the range is more in keeping with contemporary architectural design.

“ZN” types with hot-dip galvanized rustproof finish are now readily available.

THE CRITTALL MANUFACTURING CO. LTD, BRAINTREE

\* You'll see them on all the best modern buildings . . .



The "Hopley" House—County Borough of Northampton. Photograph by permission of "The Builder"  
By courtesy of J. L. Womersley, Esq., A.R.I.B.A., A.M.T.P.I., and G. Hopkinson, Esq., B.Arch., A.R.I.B.A., A.M.T.P.I.,  
late Borough Architect and Deputy for Northampton. Contractors : T. Wilson & Sons Ltd., Northampton.

3

THE development and use of the Combined Finlock Gutter and Lintel is a significant post-war trend.

Finlock combines a very fine appearance with savings on Maintenance, Bricks and Timber.

Finlock has been specified on many prize-winning designs, and is being used by upwards of 1,000 Local and Education Authorities, County Councils, Development Corporations, War Office, Admiralty, Air Ministry, Ministry of Works, Gas and Electricity Boards, etc., etc.

#### SERVICE

Free assistance available on any site.

#### ESTIMATING

We take off quantities and are completely responsible for seeing that correct goods arrive on site at stated time.

#### DELIVERIES

Our transport covers the British Isles with a 24 hour service.

**STAND No. 354 ROW T, NATIONAL HALL — BUILDING EXHIBITION**

# FINLOCK

PRE-CAST  
FINLOCK GUTTERS LTD.



CONCRETE  
GUTTERS

Head Office: FINLOCK HOUSE, 25 FRANT ROAD, TUNBRIDGE WELLS, KENT. Telephone: Tunbridge Wells 3396-7-8-9

→ 7 Works for speedy deliveries to any part of Great Britain. Crewkerne, Somerset. Leeds, Yorkshire. Edinburgh, Scotland. Cwmbran, South Wales. Royston, Herts. Tunbridge Wells, Kent. Belfast, Northern Ireland.

## Hints for Householders

I HAVE just received the latest M.O.W. Advisory Leaflet, No. 34—House Insulation. It strikes me as being in a very different vein from the previous leaflets as it seems directed so much more to householders instead of, as previously, to builders.

The leaflet discusses three subjects; first, structural insulation which occupies a considerable part of the document; secondly, how to stop draughts which, from the advice given, seem to be due to bad building and thirdly, a few hints in lagging.

Examining the second group first, there seems to be given some very strange advice on the subject of stopping draughts as it mentions only palliatives for existing buildings and nothing about the initial elimination in new buildings. Merely to say "tack felt or rubber strip around the frames" of external doors is surely only a very make-shift treatment which most of us know from experience is seldom satisfactory for long. The more permanent and satisfactory method of weather-stripping with phospher-bronze seems to be damned with faint praise by reference to its high cost; I doubt that proper weather-stripping is so costly, as not only is it so much more effective but it is so much more permanent than the methods advocated.

The advice for external doors continues by suggesting that "a timber fillet nailed to the floor is usually effective in closing the gap at the bottom of a door." Would it not be much better to advise architects and builders to use proper sills to external door frames since these achieve the desired end and are also more effective and less dangerous. To fit a fillet to a brick, tile or concrete floor is no easy matter if it is to be wind-tight and will withstand kicking and other mechanical damage.

The advice on the treatment of windows seems almost childish. To suggest, even as a temporary measure, that one should close metal windows on to thin strips of cloth or felt is not only very difficult advice to carry out but is almost certain to strain the sashes and spoil them permanently. Surely the only really useful answer is to replace the windows with better ones fitted with weather-stripping. To suggest the gaps between frames and walls "may be sealed from inside" with various materials seems to be absurd: if there are gaps at these positions which cause draughts surely they need to be treated on the outside where the weather will be penetrating and causing damage to the structure, also if plaster butts up to the frames as is usual mastic would be unsightly.

It would have been useful if it had been explained that the quarter-round "quadrant" strip to close the joint between the skirting and the floor needs to be so shaped that it is greater than quarter-round in order to press hard against the skirting. I note that no treatment is suggested for skirtings

which do not fit close to the plaster because they had been plugged to wet plaster; this is a very frequent cause of draughts.

Draughty gaps in floor boards usually arise from one cause only, namely the use of square or plain edged flooring. Would it not have been wise to say so in order to discourage this practice which, fortunately, seems confined, in the main, to London and the Southern counties. However, if a badly shrunk floor, as opposed to an odd crack between two boards, is to be treated in the ways suggested I believe it could only be carried out at a reasonable cost by a householder since to employ building labour to apply plastic wood or home-made papier mâché, except in very small quantities, would probably be more costly than replacing the floor and without being as effective. If many cracks are wider than 1in, and I have seen whole floors with such cracks which were constructed between the wars, one could not contemplate the cost of inserting slithers of wood as suggested; the only economic treatment is, in my opinion, to provide a new floor or at least a new surface with another material such as to lay lino over a very thick felt.

The advice on the need for lagging of hot and cold pipes is sound and cannot be impressed too often on those who build and on those who occupy houses. The stressing of the need for treatment of cold water services and storage placed in roof spaces even when ceiling level insulation is provided is very sound advice which is often overlooked. I have seen several examples of ceiling insulation cutting off almost all heat from pipes and tanks installed quite close to roofing tiles laid only on battens without even a layer of felt.

The advice on structural insulation given in this leaflet does not, in my opinion, stress nearly strongly enough the need for cavity external walls having inner skins of insulating material. The matter is mentioned but not adequately stressed, as by this type of initial treatment the cost of better insulation is very small whereas internal lining of walls is very much more costly. The leaflet points out that lining is so costly that it can only be justified in the "living room." Personally I believe it is justified in all living rooms of dwellings in which the designer has omitted cavity walls, especially is it desirable in second or less frequently used living rooms as the linings assist the quicker warming of rooms as well as aiding the heat losses.

The authors of the leaflet seem themselves doubtful of their own advice in some instances. For example in dealing with the suspended floors of existing houses it is suggested that "good insulation can be effected by laying insulating fibre board and covering it with plywood or linoleum" but it continues by saying "before this is attempted the possibility of dry-rot

should be considered"; if this leaflet is to be useful official advice it should be quite definite on these matters since those who know the answers to the authors' doubts will probably also know more about insulation than appears in the pamphlet. It is those who do not know the answers who are likely to make use of these leaflets.

The information throughout is very general and does not help users nearly so well as many of the earlier leaflets which, on the whole, have given excellent practical advice. Detailed direction on the fixing of blankets and quilts, the thicknesses which should be used and their relative merits would have been more useful than notes of doubtful value apparently directed to the householder so that they may make good the deficiencies of the original architects and builders. Helpful advice to users of aluminium foil insulation might have been included as I have met several instances of the smaller builders not knowing how best to install it efficiently.

The really important matter which a leaflet of this nature should have stressed is the desirability of taking proper steps when building to provide insulation and to take steps to eliminate the causes of draughts. It has to be stressed as the desire to reduce first costs is having the effect of causing the omission of all work which is not absolutely essential to put a roof over the would-be occupiers' heads. The types of draught troubles which this leaflet sets out to cure are almost always due to price cutting and skimped workmanship while the putting right of these initial failures is very costly and often not very effective. Adequate insulation precautions, draught reduction and lagging are matters about which the house purchaser or tenant know little when they look over a house. Surveyors and agents advising purchasers should draw attention to the adequacy or otherwise of precautions and the National House Builders Registration Council should include definite requirements in its Model Specification and its inspection scheme should take note of them.

### DUTCH UNCLE

#### *The Building Plant Exhibition to be at Reading Next Year*

The 1954 Building Plant Exhibition, organized by the Ministry of Works, will be held at Reading from Thursday, June 24, to Wednesday, June 30, inclusive. The site for the Exhibition is Hills Meadow, immediately below Reading Bridge, bordered on one side by the River Thames, on the other by the Reading-Caversham Road. The total space available for exhibits, demonstrations and car park is approximately 300,000 sq ft.

## MOSAICS

### FITTINGS

#### ELECTRIC COOKERS

CI/12

The Revo "Monarch" Cooker, recently introduced by the Revo Electric Co. Ltd., Tipton, Staffs, marks a very welcome change in cooker design, the placing of the controls above the splash-back having three-fold significance. First, the switches are out of the children's way; second, the controls are at eye level and therefore easier to see and operate; third, all fuses, main terminals, switches and 3-pin socket are in an easily accessible position which does not steal space from the oven which is, for the size of the cooker, exceptionally large.

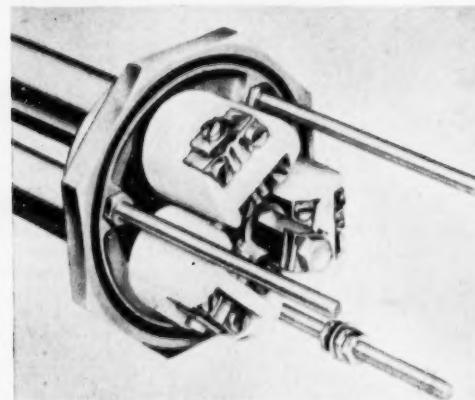


### SERVICES

#### SPACE HEATING

B3/44

The "Kaloric-Mayfair" electric cabinet convector. Produced by M. & J. Lossos & Co. Ltd., 31 Beethoven Street, W.10 in four loadings, from 750 to 3,000 watts, costing from £6.6/- to £13.11/4 with two finishes: sprayed bronze cellulose or cream enamel. Patent heating elements operate at black heat, there is a pilot light and thermostatic control is available as an extra.



### SERVICES

#### WATER HEATING

B6/13

A 9 KW. immersion heater developed by the General Electric Co. Ltd., Magnet House, Kingsway, W.C.2, as a means of converting to electric heating existing systems powered by solid fuel or gas. The three elements are connected in "Star" and are suitable for operation from 3-phase A.C., single-phase A.C. or 2-wire D.C.



### PLANT

#### TRACTORS

E7/9

A four-wheel roller-tractor dumper which has recently been introduced by H. R. Nash Ltd., of Ashstead, Surrey. Fitted with a roller-axle at the rear which acts as a heavy fly-wheel, the dumper is claimed to have a greater drawbar pull than other vehicles of comparable size. Skip capacity is over 10 cu. ft. maximum load ½ ton.

## INDUSTRIAL NOTES

● W. N. Froy & Sons, Ltd., have opened at their King Street, Hammersmith, showrooms a display of new fireplaces and surrounds, each shown in a contemporary setting of furniture designed and supplied by Heal & Son, of 196, Tottenham Court Road, W.1. There are seven different rooms laid out by Mrs. Rowland Jones, of Heal's, each with its individual tiled fireplace and timber mantel costing together from thirty to forty-five pounds.

● Thermodare (Great Britain) have moved to new offices: 79-80, Petty France, London, S.W.1. Telephone Nos. Abbey 1060 and Abbey 3348.

● The Iron and Steel Board, after consultation with the Industry, have published and circulated to iron and steel producers concerned, a Notice requiring them to submit for the Board's consent under Section 6 of the Iron and Steel Act, 1953, any proposals for modernization or development estimated to cost more than £100,000 and which fall within the scope of the Board's powers under that Section. The Board will from time to time be reviewing this criterion in the light of experience.

● For the first time in its history the British Industries Fair will feature a special selective display of well-designed British goods in 1954.

The Council of Industrial Design has been invited to join with the Board of Trade in staging this display as the central feature of the Earls Court section. All the exhibits will be chosen from *Design Review*, the illustrated record of current British products of a high standard of design.

This display is planned to include furniture and furnishings, tableware, hardware, travel goods, domestic appliances and building fittings such as door furniture, fireplaces, bathroom fittings, etc. In order to ensure that good current designs are not overlooked, manufacturers are urged to submit as soon as possible photographs (or flat samples) of their recent work which is not already included in *Design Review*. Further enquiries should be addressed to: Major-General J. M. Benoy, C.B.E., Acting Chief Industrial Officer, The Council of Industrial Design, Tilbury House, Petty France, London, S.W.1.

● Mr. J. Holmes has been appointed Sales Manager of Thos. Storey (Engineers), Ltd., of Stockport, manufacturers and World licensees for Bailey Bridging and equipment. Mr. Holmes was formerly Export Manager of Thos. W. Ward, Ltd., of Sheffield.

● Northern Aluminium Company, Ltd., announce the following changes in their Sales Department: Mr. F. Layton is to take charge of the Sales Administration Department at Banbury, being succeeded as Manager of the Leeds area Sales Office by Mr. H. H. Louch. Mr. Louch's previous position as Sales Development Manager is to be held by Mr. E. D. Iliff, at present Publicity Manager, and the Publicity Division will be in the charge of Mr. R. F. Tayler. These new appointments became operative from November 1, 1953.

● Stramit Boards, Limited, announce the appointment of Messrs. Alexander Ross and Company, of 44, York Street, Glasgow, C.2, as agents for their products in Scotland.

● Solignum, Limited, announce that Mr. G. W. Robertson, who has been Sales Manager for many years, has now been appointed a Director of the Company.

Notes below give basic data of contracts open under locality and authority which are in bold type. References indicate: (a) type of work, (b) address for application. Where no town is stated in the

## NOVALITE

Forms a clear Plastic Wax protective coating over Brickwork, Stonework, Painted Wood and Metal.

### Waterproof Anti-corrosive

Write for particulars to:—

British Nova Works Ltd.

Department

### Nova Industrial Finishes

641, London Road, Thornton Heath, Surrey.

Tel: THO 1691

Contractors to H.M. Ministry of Works

### ENGERT & ROLFE LTD

#### COPPERTRINDA

The Best Dampcourse yet produced



LONDON E14

EAST 1441

## CHAIRS

### OF SUPERIOR QUALITY

**CHEAP** Chairs for Canteens, British Restaurants, Halls, etc. Personal attention given to all Orders.

### Mealing Bros. Ltd.

Avenue Chair Works,  
West End Road,  
High Wycombe.

Telephone: Wycombe 499.



Catalogue on application

**Save Bricks by using**

TRUE FLUE

**STACK CONSTRUCTION**  
**TRUE FLUE LTD**  
CONVECTOR HOUSE · ACACIA ROAD  
ST. JOHNS WOOD · LONDON · N.W.8

### "EXCAVATION SPECIALISTS"

COMPLETE RANGE  
OF EARTH MOVING TACKLE

**"CAUDLE"**  
OF  
**LAND GEAR**  
CO., LTD.,  
BIRMINGHAM 26

Telephone: STECHFORD 3011 Two Lines

## CONTRACT • NEWS •

### OPEN

### BUILDING

**BATH C.C.** (a) 5 maisonettes and 6 flats in 1 block, St. John's Road, Bathwick. (b) City Planning Officer, 7, North Parade Buildings. (c) 2gns. (e) Dec. 2.

\* \* \*

**BRIDGE-BLEAN R.C.** (a) 8 houses, Adisham Housing site, near Canterbury. (b) Clerk, Council Offices, Old Dover Road, Canterbury. (c) 2gns. (e) Nov. 23.

\* \* \*

**CHICHESTER C.C.** (a) Phase 1 of Council Works Depot, comprising garages and workshop. (b) Town Clerk, "Greyfriars," North Street. (c) 2gns. (e) Nov. 28.

\* \* \*

**GOWER R.C.** (a) Water treatment plant and pumping station building, with ancillary works, at Parkmill. (b) Henry Davies, A.M.I.C.E., 7, Uplands Crescent, Swansea. (c) 5gns. (e) Dec. 1.

\* \* \*

**HALIFAX B.C.** (a) Block of shops and flats, Stanningley Road. (b) Borough Engineer, Crossley Street. (c) £2. (e) Nov. 16.

\* \* \*

**LEE CONSERVANCY CATCHMENT BOARD.** (a) Offices and garages, etc., at "The Grange," Crossbrook Street, Cheshunt, Herts. (b) Engineer to the Board, "The Grange," Crossbrook Street, Cheshunt. (c) £3. (e) Nov. 25.

\* \* \*

**LONDON—WEST HAM B.C.** (a) 34 houses, 30 maisonettes and 33 flats, Whitwell Road, E.13. (b) Borough Architect, 70, West Ham Lane, E.15. (c) 2gns. (e) Nov. 16.

\* \* \*

**LOWESTOFT B.C.** (a) 18 flats at Raglan Street and Jacobs Street. (b) Borough Engineer, 49, High Street. (c) 2gns. (e) Dec. 4.

\* \* \*

**MAIDENHEAD B.C.** (a) 6 shops with 3-bedroom maisonettes over, with garages, etc., Larchfield Estate. (b) Borough Engineer, 14, Craufurd Rise. (c) 2gns. (e) Dec. 2.

\* \* \*

**NEW WINDSOR B.C.** (a) 36 flats in 2 3-storey blocks at Vale House, Dedworth Road, Windsor. (b) Borough Engineer, Kipling Memorial Building, Windsor. (c) 2gns. (e) Dec. 18.

\* \* \*

**PLYMOUTH C.C.** (a) 41 dwellings at Chaucer Way. (b) City Architect, Seymour Road. (c) 3gns. (d) Nov. 14.

\* \* \*

**ROCHDALE B.C.** (a) Secondary school at Spotland. (b) Town Clerk, Town Hall. (e) Dec. 3.

address it is the same as the locality given in the heading, (c) deposit, (d) last date for application, (e) last date and time for submission of tenders. Full details of contracts marked ★ are given in the advertisement section.

### ARCHITECTURAL IRONWORK



### HOTCHKISS LIMITED

Established 1885

ASHFORD ROAD, EASTBOURNE. 2424 3 Lines

### NEW FLOORS for OLD

Floors of all Types  
Repaired and Renewed

**FLOOR RENOVATIONS Ltd**  
38 LAURISTON RD., E.8. Phone: AMH 5471-2  
Sandpapering machines for hire

### WINDOW BOXES



Fabricated in  
Asbestos Cement Sheetings

List of details and sizes on application:  
**DALTON, BALLARD & Co. Ltd.**  
Fleet Place, Upper Park Rd., London, N.W.3  
Tel.: Primrose 5854

**ASPHALT  
WORK  
TO ALL B.S.S.**  
**COVERITE**  
(ASPHALTERS) LTD.  
PALACE GATES STN. N.22 BIRMINGHAM 22/2

## LIFTS

### by MORRIS

Herbert Morris Ltd.  
Loughborough

Engineering branches in London, Glasgow  
Manchester, Birmingham, Leeds, Sheffield,  
Newcastle, Cardiff, Bristol, Dundee, Liverpool,  
Nottingham, Bury St. Edmunds, Belfast

**ROTHWELL U.C.** (a) 16 garages in 4 blocks of 4, Haigh Road site. (b) Messrs. R. A. Easdale & Son, County Chambers, Bradley Street, Castleford, Yorks. (c) 2gns. (e) Nov. 23.

### PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work, (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

**OXFORD.** (1) Territorial Army centre. (2) Slade Park. (3) G. J. Lovell and Son, Ltd., Gerrards Cross, Bucks. (4) £112,129.

\* \* \*

**LEATHERHEAD.** (1) Research laboratory for British Electrical and Allied Industries Research Association. (3) Gee, Walker and Slater, Ltd., 100, Park Lane, London, W.I. (4) £400,000 approx.

\* \* \*

**WALTHAMSTOW B.C.** (1) 60 flats, etc. (2) The Drive. (3) Direct labour. (4) £119,924.

\* \* \*

**ENFIELD U.D.C.** (1) 72 flats. (2) Manor Farm. (3) Townsend and Collins, Ltd., Enfield. (4) £107,063.

\* \* \*

**BELFAST.** (1) Six-storey building. (2) Donegall Place, for C. and A. Modes, Ltd., London, W.I. (3) McLaughlin and Harvey, Ltd., 34, York Road, Belfast. (4) £250,000.

\* \* \*

**WELWYN GARDEN CITY.** (1) Office block for I.C.I. (Plastics Division). (3) Welwyn Builders, Ltd., 42, Bridge Road, Welwyn Garden City. (4) £120,000.

\* \* \*

**PLYMOUTH CORPORATION.** (1) 48 flats. (2) Motte Street. (3) Wakeham Bros., Ltd., Kneighton Road, Plymouth. (4) £72,549.

\* \* \*

**BARKING B.C.** (1) 53 dwellings. (2) Thames View. (3) Direct labour.

\* \* \*

**ROSSENDALE (LANCS).** (1) First instalment of college of further education. (3) John Tairline, Ltd., Parker Street Sawmills, Bury. (4) £44,928.

\* \* \*

**BRIGHTON.** (1) Factory, for Elizabeth English Shoes, Ltd. (2) Lower Bevenden Industrial Estate. (3) McKellar and Westerman, Ltd., 143, Church Road, Hove, Sussex. (4) £24,554.

\* \* \*

**SOUTHALL B.C.** (1) 96 houses, 94 flats, etc. (2) Willow Tree Estate. (3) Gregory Housing, Ltd., 27, Chapel Road, Worthing. Negotiated tender.

\* \* \*

**CHESTERTON R.D.C.** (1) 98 houses. (2) Gt. Shelford. (3) J. Brignell and Co., Ltd., 42, Newmarket Road, Cambridge. (4) £126,973.

\* \* \*

**DUKINFIELD B.C.** (1) 96 houses. (2) Yew Tree Lane. (3) Kenyon Construction Co., Ltd., 9, Lime Bank Street, Manchester, 12. (4) £126,350.

## HIGH QUALITY WHITE FACING BRICKS

(S.P.W. BRAND)

As supplied to the WAR OFFICE, H.M.  
MINISTRY OF WORKS, AIR MINISTRY,  
Etc.

Sample and Brochure  
sent on request

**M. McCARTHY**  
& SONS, LTD.  
**BULWELL • NOTTINGHAM**

### ENGERT & ROLFE LTD FELT ROOFING CONTRACTORS

LONDON E14      EAST 1441

### London's Finest new & secondhand Value ARCHITECTS' PLAN CHESTS



376-380 EUSTON ROAD - LONDON N.W.1. Phone EUST 1523

### LIGHTNING CONDUCTORS

**J. W. GRAY & SON LTD.**  
13, CASTLE ST., SALISBURY  
Telephone: SALISBURY 2750

### CHURCH SPIRE RESTORERS

**GIMSON LIFTS**

Service is available  
throughout the country

**GIMSON & CO. (LEICESTER) LTD.**  
**VULCAN ROAD, LEICESTER**

Telephone: LEICESTER 60272

Telegrams: GIMSON LEICESTER

**BIRMINGHAM E.C.** (1) Girls' school. (2) Billesley. (3) Smith Bros. (Construction), Ltd., 261, Stratford Road, Birmingham. (4) £100,563.

\* \* \*

**NEWCASTLE - ON - TYNE E.C.** (1) Primary school. (2) Stocksfield Avenue. (3) George Bainbridge, 205, Westgate Road, Newcastle-on-Tyne. (4) £129,657.

\* \* \*

**BRITISH RAILWAYS (LONDON MIDLAND REGION).** (1) Reconstruction of Gospel Oak Station, London. (3) Griggs & Son, Ltd., 56, Victoria Street, London, S.W.1.

\* \* \*

**BRITISH RAILWAYS (LONDON MIDLAND REGION).** (1) Repairs to the engine shed roof, smoke troughs and stacks. (2) Walton-on-the-Hill motive power depot. (3) Thomas Collier & Sons, Ltd., Brown Street Works, Leigh, Lancs.

\* \* \*

**BRITISH RAILWAYS (LONDON MIDLAND REGION).** (1) General maintenance contract for a period of two years. (2) Euston House, Eversholt Street; Trainmen's Hostel, Polygon Road; Carlow Street Offices; Train Arrival Bureau, Euston Station. (3) Wm. Titmas & Son, 2, Barnby Street, London, N.W.1.

\* \* \*

**BRITISH RAILWAYS (LONDON MIDLAND REGION).** (1) Lengthening of Bridge No. 51 carrying Wednesbury Road over the railway between Walsall and Pleck for the West Midlands Gas Board. (3) Leonard Fairclough, Ltd., Adlington, Lancs.

\* \* \*

**CO. ANTRIM, WAR DEPARTMENT.** (1) Building. (3) Connor & Beattie, Ltd., Belfast.

\* \* \*

**LANCASHIRE, WAR DEPARTMENT.** (1) Hutting. (3) A. McColl & Son (Builders), Ltd., St. Helens.

\* \* \*

**KENT, WAR DEPARTMENT.** (1) Sewage work. (3) Cawood Wharton & Co., Ltd., London, N.8.

\* \* \*

**MIDDLESEX, WAR DEPARTMENT.** (1) Electrical installation. (3) W. F. S. Holt, Ltd., Bradford.

\* \* \*

**INVERNESS-SHIRE, WAR DEPARTMENT.** (1) Flooring. (3) D. Macauley, Inverness.

\* \* \*

**OXFORDSHIRE, WAR DEPARTMENT.** (1) Roofing. (3) Maurice Hill, Ltd., Havant.

\* \* \*

**OXFORDSHIRE, WAR DEPARTMENT.** (1) Reconstruction of water tanks. (3) T. Ringham & Co., Ltd., London, S.W.19.



**RINGMER BUILDING WORKS, LTD.**  
BUILDERS & CONTRACTORS  
Joinery Specialists  
**RINGMER : LEWES : SUSSEX**  
Telephone : Lewes 300

**THE VEITCHI COMPANY LIMITED**  
**RUBBER FLOORING**  
SOUTHEY RD., LONDON, N.15  
STAMFORD HILL 9428

**GLOUCESTERSHIRE, WAR DEPARTMENT.** (1) Installation of Lamson tubes. (2) Lamson Engineering Co., Ltd., London, N.W.10.

**HAMPSHIRE, WAR DEPARTMENT.** (1) Floor repairs. (3) Vigers Bros., Ltd., London, E.C.4.

**LONDON, MINISTRY OF WORKS.** (1) Internal Decorations. (2) 1 & 2, Prudential Building, E.C.1. (3) Alfred Bagnall & Sons, Ltd., 141, Uxbridge Road, W.12.

**DURHAM, MINISTRY OF WORKS.** (1) Alterations and additions. (2) Head Post Office and Telephone Exchange, Russell Street, South Shields. (3) Tom Swan (North Shields), Ltd., Newcastle Street, North Shields.

**HAMPSHIRE, MINISTRY OF WORKS.** (1) Rebuilding defective frontage. (2) H.P.O., Criterion Arcade, Bournemouth. (3) W. Hayward & Son (Bournemouth), Ltd., 400b, Holdenhurst Road, Bournemouth.

**SUFFOLK, MINISTRY OF WORKS.** (1) Adaptations. (2) M.N.I., Grand Hotel, Lowestoft. (3) Williamson & Millichamp, Ltd., Leicester Road, Gorleston-on-Sea, Norfolk.

**YORKSHIRE, MINISTRY OF WORKS.** (1) Alteration and extensions. (2) Branch Post Office, Grange Road, Middlesbrough. (3) Plaxtons (Scarborough), Ltd., Castle Works, Seamer Road, Scarborough.

**LIGHT STEELWORK (1925) LTD.**

**HYTHE ROAD,  
WILLESDEN, N.W.10**

Telephone: LABDROKE 3674

**STEEL STAIRCASES  
BALUSTRADES AND  
HANDRAILS**



**ROK**  
One of the "Red Hand" quality roofing felts

D. ANDERSON & SON LTD., Stretford, Manchester

**ALTRINDA DAMPCOURSE**  
Supplied From Stock  
**ENGERT & ROLFE LTD.**  
LONDON E14 EAST 1441

6 WIDTHS  
10' 12' 15' 20' 25' 30'  
3 EAVES HEIGHTS  
7'0" 8'0" 10'0"  
ANY LENGTH.

Whenever you require a timber building of any kind, write without delay to

# THORNS

For Huted Camps, Hospital Extensions, Halls, Offices, etc.

J. THORN & SONS LTD (Dept 113) · BRAMPTON ROAD · BEXLEYHEATH · KENT  
Telephone: Bexleyheathe 305.

Established 1896.

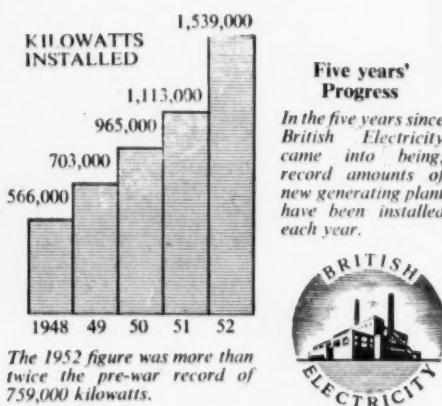
BD 530

## ELECTRICITY for more prosperity

**THE FIRST TASK OF BRITISH ELECTRICITY** — the restoration of the pre-war reliability of supply — has progressed substantially towards fulfilment.

Today, all consumers — industrial, commercial, agricultural and domestic — are using more electricity. Even so the power stations are not producing their full output except for short periods once or twice a day.

A vast potential electricity supply is available for more electric cooking and water heating, as well as for industry, agriculture, and other purposes. Increased use of electricity in different ways helps to develop a balanced load on the power stations and makes for increased prosperity, cheaper goods, and a higher standard of living.



## Tyrolean finish . . .



This modern decorative finish—an "open" textured facing—provides a pleasing and durable finish for concrete, masonry and all surfaces having the necessary suction.

It can be applied quickly and efficiently by the TYROL hand-operated machine which effects a saving of 20% on material costs against other methods.

- LIGHT WEIGHT
- RAPID COVERAGE
- SIMPLE TO USE
- EASY TO CLEAN

**£9 18 0 (Delivered free)**

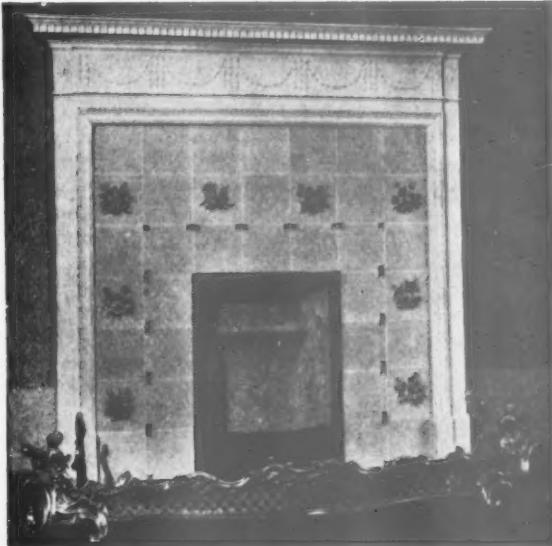
## TYROL SALES LTD.

ST. BENET CHAMBERS, 1a FENCHURCH ST., LONDON, E.C.3

Telephone: MANSion House 2735

## PACKARD & ORD LTD., BARNFIELD, MARLBOROUGH, WILTS.

Tel: Marlborough 297



**Building Exhibition, Olympia  
Stand 457, Grand Hall Gallery**

**Marlborough Hand Painted Tiles in  
Fireplace, Splashback, & Bathroom**

*The Quality Felts  
Roofings and  
Dampcourses*

STANDARD BITUMEN ROOFING  
PURE BITUMEN DAMPCOURSES  
UNDERSLATING FELTS  
SHEETING AND PACKING FELTS

For over 50 years Blackwells have been making Felts, Roofings and Dampcourses of outstanding quality and value. To-day these products provide Architects, Builders and Handymen with an unsurpassed range.

The same high standard of workmanship and materials goes into the roofing work which Blackwells carry out under contract. May we quote you for your requirements?

*Write for samples & literature*

BLACKWELLS & NATIONAL ROOFINGS LTD  
MEMBER OF THE BRITISH PLASTER BOARD ORGANISATION

ALTRINCHAM - CHES.  
TEL. ALTRINCHAM 2641

ERITH - KENT  
TEL. ERITH 2641

# COMPLETE PLASTER

*Specifications for  
ARCHITECTS*

"**Murite**"  
REGD. TRADE MARK  
**GYPSUM PLASTER**

WRITE FOR YOUR COPY TO:

**CAFFERATA & CO. LTD.**  
NEWARK • NOTTS.  
TELE : NEWARK 2060

# Two ways to HEAT CONSERVATION

## I DRAUGHT EXCLUSION

will reduce the loss of heat through the average window by at least half, and through doors by an even greater amount. The actual rate of cold-air infiltration, the source of all draughts, can in turn be reduced by anything up to 95%, according to type of construction.

**EXAMPLE:** D/H Sash Windows of wood, 5' 2" x 2' 8", average length and width of gap, 18' 0" x 1", average wind speed 10 m.p.h.



BEFORE draught-exclusion =	1908.0 cu. ft. per hr.
AFTER " "	= 264.6 cu. ft. per hr.
PREVENTION achieved	= 1643.4 cu. ft. per hr. or 86.1%

## 2 ROOF INSULATION



BEFORE insulation (Desirable standard 0.20) =	0.43
AFTER insulation by 1" bitumenised glass wool =	0.13
PREVENTION achieved	= 0.30 or 69.7%

Specify DRAUGHT EXCLUSION and ROOF INSULATION by HERMESEAL. No higher degree of efficiency in the conservation of heat and the saving of fuel can be achieved in any already existing building. Surveys and installations are carried out by our own skilled staff throughout the country. Write for full details.

*draught exclusion & roof insulation by*  
**HERMESEAL**  
*means warmer homes*

SEE OUR STAND 648 AT THE BUILDING EXHIBITION, OLYMPIA, NOV. 18-DEC. 2

BRITISH HERMESEAL LIMITED  
Head Office: 4 PARK LANE, LONDON, W.I.  
Telephone: GROsvnor 4324 (5 lines)

# CURFEW FIREPROOF DOORS CLOSE AUTOMATICALLY WHEN A FIRE STARTS

Every door is guaranteed to meet the Fire Insurance Regulations

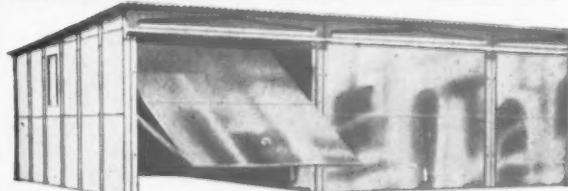
## CURFEW DOORS AND SHUTTERS LIMITED

ANCOATS · MANCHESTER 4 · ENGLAND  
Telephone: COLlyhurst 2018

TUDOR WORKS · PARK ROYAL · N.W.10  
Telephone: Elgar 6954

Also manufacturers of COLLAPSIBLE  
GATES, ROLLING DOORS & GRILLES.

## BATLEY LOCK-UP GARAGES



## NOW AVAILABLE WITH UP AND OVER DOORS

With the present-day high cost of building materials and labour, BATLEY Multiple Concrete Garages offer tremendous economies. Employing the well-known Batley principle of tongued and grooved concrete units which are simply bolted together on a firm level foundation, these Garages can be erected by unskilled labour in hours instead of days. Fitted with smooth-sliding, space saving Up and Over Doors as an alternative to hinged doors at no extra cost. In addition to the big saving in initial cost, Batley Garages require no maintenance—they last a lifetime without attention. They are completely fireproof, weatherproof, rotproof and verminproof. Wherever lock-up Garages are required—for Municipal Housing Estates, Hotels, Flats, Armed Services Camps, etc.—it will pay you to investigate.

No. of Garages	Size	Clear Height	Total Cost
2	16ft. 3in. x 16ft. 4in.	6ft. 3in.	£125 0 0
3	24ft. 3in. x 16ft. 4in.	6ft. 3in.	£180 0 0
6	48ft. 3in. x 16ft. 4in.	6ft. 3in.	£345 0 0
9	72ft. 3in. x 16ft. 4in.	6ft. 3in.	£510 0 0
12	96ft. 3in. x 16ft. 4in.	6ft. 3in.	£675 0 0

Plus £55 per additional garage to any number required in one block. Also available with a clear height of 7ft. 9in., an alternative length of 19ft. if required.

DEFERRED TERMS AVAILABLE

**BATLEY**  
MULTIPLE CONCRETE GARAGES  
Send for full details and brochure to:  
ERNEST BATLEY LTD., 96, Colledge Road, Holbrooks, Coventry  
Phone: 89245/6

## LATA DOORS &amp; PRODUCTS LTD

Manufacturers of

## 'LATA' FLUSH DOORS

(BRITISH MADE AND LICENCE FREE)

INVITE YOU TO VISIT  
STAND No. 654 (1st. FLOOR EMPIRE HALL)  
AT THE BUILDING EXHIBITION, OLYMPIA

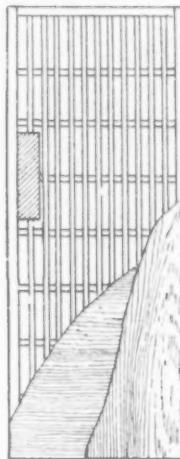
'LATA' CONTRACT DOOR  
(LATTICE CORE)

**Specification :- CORE :** The Core is constructed in accordance with the design illustrated, with stiles, top and bottom rails of hardwood,  $1\frac{1}{4}$ " vertical rails and horizontal rails of the same dimension complete the centre members of the core. The Lock Block is positioned above the centre line and the locking edge is lipped with hardwood. The top bottom and intermediate rails are stub-tenoned into the stiles, to form a rigid and reliable interior construction.

**PLYWOOD :** OAK or MAHOGANY FACED resin-bonded three-ply of our own manufacture, which is of exceptional strength, is used exclusively in the construction of LATA FLUSH DOORS.

**THICKNESS :** All doors are supplied  $1\frac{1}{2}$ " or  $1\frac{3}{4}$ " nom. thickness to order.

THE NEW HORNITEX DOOR WILL ALSO BE ON SHOW



## STOCK SIZES:-

6'6" x 2'0" x  $1\frac{1}{2}$ " or  $1\frac{3}{4}$ " (nom.)  
6'6" x 2'3" x  $1\frac{1}{2}$ " or  $1\frac{3}{4}$ " (nom.)  
6'6" x 2'6" x  $1\frac{1}{2}$ " or  $1\frac{3}{4}$ " (nom.)

Other sizes to special order.

## STOP PRESS

## WATCH THIS

## SPACE

## NEXT WEEK

Sole Selling Agents

## DUNCAN EWING &amp; CO. LTD.

36-38 NEW BROAD ST., LONDON, E.C.2

Phone : London Wall 6691-5

& 358 370, SEFTON HOUSE, EXCHANGE BLDGS.,  
LIVERPOOL, 2. Phone : Liverpool Central 5083.Further details supplied on request and Enquiries from  
Architects are welcomed.

The

G.E.C. electric  
SANITARY incinerator

GUARANTEED for 12 MONTHS

- ★ In a class of its own for hygienic and efficient disposal of sanitary wear and surgical dressings.
- ★ Simple to operate—foot pedal opens hopper and automatically controls switching.
- ★ Solid rod heating element for long life; special clutch mechanism for economic operation.
- ★ Awarded the Certificate of the Royal Institute of Public Health and Hygiene.

WRITE for fully descriptive folder on the dependable G.E.C. Sanitary Incinerator.



# REDUCED PRICES

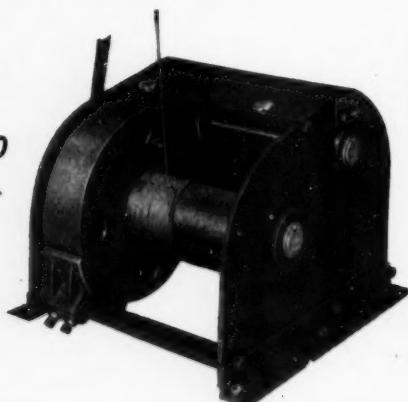
2-Ton,  
3-motor, Overhead  
Travelling Cranes,  
incorporating our  
Type 10c Electric  
Pulley Blocks.

From : £585 delivered U.K.

## Electric Friction Hoists

$2\frac{1}{2}$ /3 cwts. & 5 cwts.

from :  
**£95-3-0**  
&  
**£106-14-0**  
Delivered.

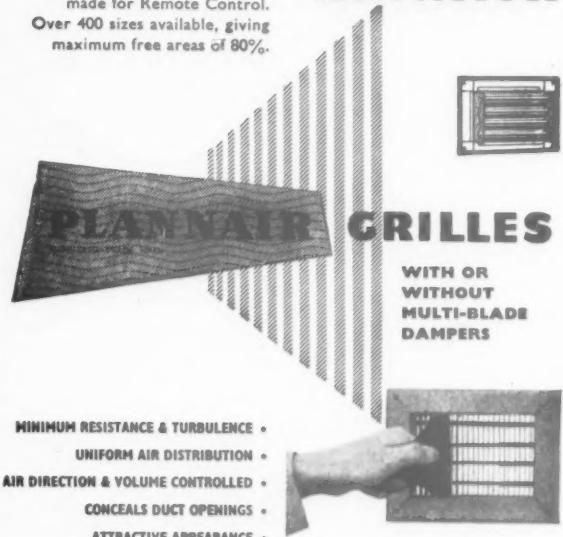


## VAUGHAN LIFT ENGINEERING LTD

VAUGHAN LIFT ENGINEERING LTD.  
5 CROMPTON WAY · CRAWLEY · SUSSEX  
Phone: Crawley 1220 2 Grams: 'Vaunlift' Crawley  
LONDON OFFICE:  
47/51 FEATHERSTONE ST., LONDON, E.C.1  
Phone: CLEkenwell 4792

Multi-blade Dampers are recommended for all grilles used for air-supply where Volume Control is essential. Single-flap Dampers can be supplied, and grilles with Multi-blade Shutters are also made for Remote Control. Over 400 sizes available, giving maximum free areas of 80%.

## planned air diffusion



MINIMUM RESISTANCE & TURBULENCE ·  
UNIFORM AIR DISTRIBUTION ·  
AIR DIRECTION & VOLUME CONTROLLED ·  
CONCEALS DUCT OPENINGS ·  
ATTRACTIVE APPEARANCE ·

WRITE FOR DESCRIPTIVE LEAFLET

**CAMACK BROWNE LIMITED**  
140 PARK LANE LONDON W1 TEL MAYFAIR 4374/5  
Rooster 2987

## A. J. BINNS LIMITED

ARCHITECTURAL IRONMONGERY  
CLOAKROOM EQUIPMENT  
FENCING AND GATES

We are exhibiting our well-known products at the

## BUILDING TRADES EXHIBITION

OLYMPIA

from

November 18 to December 2, 1953

STAND No. 262/3, Row M  
NATIONAL HALL

London Showroom : 29, Store Street, London, W.C.1  
Harvest Works : 99-107, St. Pauls Road, London, N.1  
Liverpool : Cunard Buildings, Liverpool, 3



# SMITH'S



Cordially extend to you an Invitation to visit their Stands No. 294/5, Row P, at the Building Exhibition, Olympia, between November 18th and December 2nd, where you will see some very interesting features of their system of Hollow Block Concrete Floor and Roof Construction.

Midland Associated Company & Licensees,  
**PARKFIELD CONCRETE PRODUCTS CO., LTD.,**  
St. Peter's Road,  
NETHERTON. 'Phone: Dudley 4315.

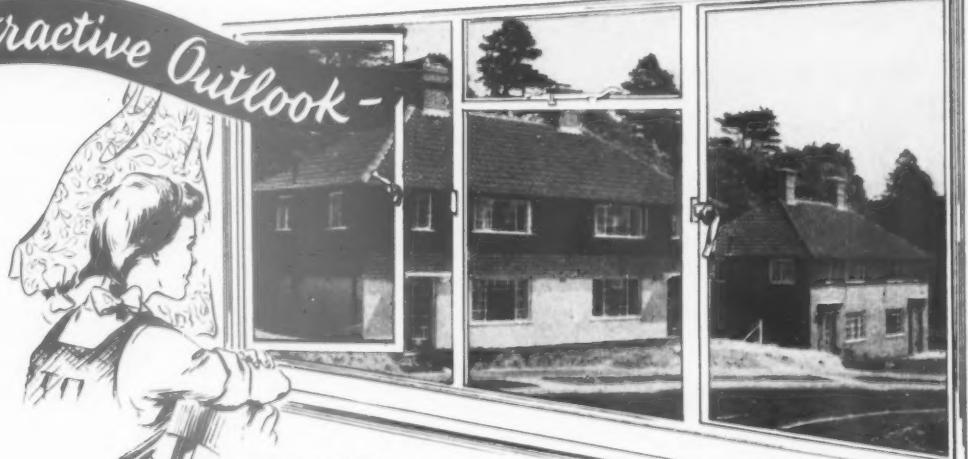
## SMITH'S

2 WAY REINFORCED  
FIREPROOF FLOORS

**SMITH'S FIREPROOF FLOORS LTD.**  
IMBER COURT, EAST MOLESEY, SURREY

Telephone: EMBerbrook 3300  
Telegrams: TRIANCO EAST MOLESEY

An Attractive Outlook-



is provided by

**'CLEMBRO'** GALVANISED METAL WINDOWS

TRADE MARK

Indeed, there's many a householder on many an estate who appreciates the Clembro Windows that are fitted in his home. They're a pleasure that time cannot impair—the product of long experience and conscientious work.

Full Catalogue gladly sent on request.

**CLEMENT BROS., HASLEMERE, LTD.**  
Clembro Works Wey Hill Haslemere Surrey  
Telephone: HASlemere 11924 Telegrams: Clembro, Haslemere





## THE USE OF RUBBER IN BUILDING



Floor being surfaced with latex/cement composition.

BUILDING TRADES EXHIBITION OLYMPIA, LONDON NOV. 18—DEC. 2, 1953 STAND No. 34, ROW B GRAND HALL

From the foundations of a building to the final decorations rubber plays an ever increasing part in construction methods.

The uses of rubber in building include :

**Rubber Insulation materials (sound, heat and electricity)**

**Rubber Flooring**

**Rubber Stair Treads and Nosings**

**Rubber in Paint**

**Rubber Powder in Asphalt**

These and many other applications of rubber for building purposes can be seen on the British Rubber Development Board's stand at the Building Trades Exhibition and you are invited to ask for information and advice. Literature will be available.

An Information Service is maintained by the Board at its offices—Market Buildings, Mark Lane, E.C.3.

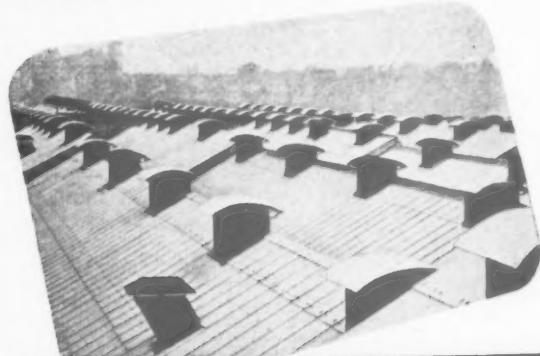
The British Rubber Development Board is a non-trading organization maintained by the producers of natural rubber. Its object is to promote and develop new and existing uses of rubber.

**THE BRITISH RUBBER DEVELOPMENT BOARD**  
MARKET BUILDINGS • MARK LANE • LONDON, E.C.3

## DURASTEEL Composite Steel & Asbestos

### Corrugated Roofing

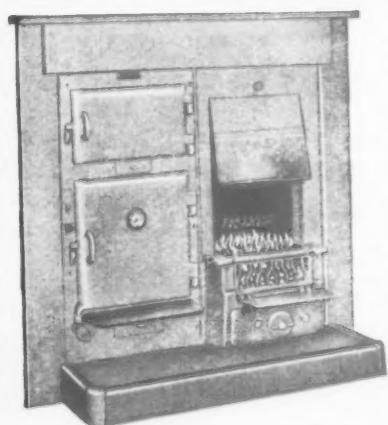
STRENGTH & FIRE RESISTANCE DURABILITY.



**DURASTEEL LTD.**  
OLDFIELD LANE, GREENFORD, MIDDX.  
(Phone WAXfield 1051 (Pte B. X.) Grams Endurafire, Westphone, London)

## FORESIGHT GRATES

Introducing the  
**"XL-TALBOT"**  
SIDE-OVEN COMBINATION GRATE



This is an entirely new 38" x 38" Model designed to meet the exacting demands required by the modern home. It is Continuous Burning, very efficient and at the same time gives the comfort of an open fire with economy.

Supplied in various attractive vitreous enamel finishes. Also Lustre enamel.

★ Approved by The Ministry of Fuel and Power ★

PLEASE SEND FOR FURTHER DETAILS TO :-



**SAMUEL SMITH & SONS LTD.**  
BEEHIVE FOUNDRY  
SMETHWICK, 4I, STAFFS.



FACING

BRICKS

ARE BEING EXHIBITED ON

National Federation of Clay Industries—Stand 88, Row D

South Eastern Brick & Tile Federation—Stand 92, Row E

BUILDING EXHIBITION, OLYMPIA NOV. 18—DEC. 2

**THE HAMMILL BRICK CO. LTD.**

EASTRY SANDWICH KENT Telephone : EASTRY 231/2

# FLOORTEX

REGISTERED TRADE MARK

A RUBBER LATEX COMPOUND FOR LATEX CEMENT FLOORING COMPOSITIONS  
FOR USE IN OVERLAYS, SUB-FLOORS, SCREEDS, SHIPS' DECKING, ETC.

*Prices and full particulars on application  
to our Works or to our London Office*

## RUBBER LATEX LTD.

WORKS MOSLEY ROAD, TRAFFORD PARK, MANCHESTER, 17 Tel. TRAFFORD PARK 3087  
ST. DUNSTAN'S HOUSE, IDOL LANE, LONDON, E.C.3. Tel.: MANSION HOUSE 1005



*in the*  
**BUILDING  
INDUSTRY**

THE METSEC comprehensive range of products for the Building Industry includes Portal Frames, Nailable Open Web Steel Joists, Industrial Roof Sheeting, Roof Trusses, Door Frames, Plaster Bead, Venetian Blind Laths and many other "components for better building," all of which contribute efficiently and economically to simplifying the task of modern Architects and Builders.

We shall be pleased to see you at

**\*STAND 147**  
ROW G  
BUILDING EXHIBITION  
OLYMPIA

where you will find many METSEC Products of outstanding interest.

METAL SECTIONS LTD.

OLDBURY • BIRMINGHAM

Phone: BROadwell 1541



Many Types  
and Sizes . . .

## EBONITE FLOORING STRIP

EBONITE  
SINK  
WASTES

ROD TUBE  
SHEET AND  
TURNED PARTS

Manufacturers:  
**The BRITISH EBONITE CO. LTD.**  
NIGHTINGALE ROAD, HANWELL, LONDON, W.7  
ENQUIRIES INVITED EALING 0125

Telephone:  
ENfield 4877/8

Telegrams:  
Quality, Enfield

## SHUTTER CONTRACTORS LTD.

LINCOLN WORKS

ENFIELD

MANUFACTURERS OF

*Quality*

**ROLLING SHUTTERS  
IN STEEL, WOOD &  
ALUMINIUM ALLOY**

FOR ALL TYPES OF BUILDINGS

APPROVED MANUFACTURERS TO  
F.O.C. AND L.C.C. REQUIREMENTS

CONTRACTORS TO  
H.M. GOVERNMENT—ALL DEPARTMENTS  
PUBLIC UTILITY COMPANIES, COUNCILS  
PRINCIPAL RAILWAYS, INSTITUTIONS  
Etc.

## — "OLD CHARM" FURNITURE —

DISTINCTIVE DESIGNS  
FOR THE CONNOISSEUR



WOOD BROS.  
(FURNITURE) LTD.

TELEPHONES :  
HOWARD 1007-1555.

Reproduction Furniture Manufacturers

TELEGRAMS :  
WOODCHARM

REG. OFFICES & WORKS :

LOCKFIELD AVENUE, BRIMSDOWN, ENFIELD, MIDDX.

(FULL CATALOGUE AVAILABLE ON REQUEST)

Is  
your transport  
on the  
right road?

- keep up-to-date with

MOTOR  
TRANSPORT

Every Friday 4d.

Practical features in "Motor Transport": 3

### Vehicle Road Tests

MOTOR TRANSPORT's vehicle road tests are widely known (and greatly appreciated) for their impartiality and accuracy. Covering all types of motor transport vehicle on the British market, goods and passenger-carrying, they provide the fullest possible details of fuel consumption, braking, acceleration, hill-climbing and general performance. The vehicle's specification is included, and the reports are illustrated with diagrams and photographs taken under actual test conditions. You won't regret the time spent in keeping ahead by reading MOTOR TRANSPORT. Order it from your newsagent. Every Friday, 4d.

MOTOR TRANSPORT

Dorset House, Stamford Street, London, S.E.1

# OFFICIAL APPOINTMENTS

Rate 1/6 per line, minimum 3/-

## APPOINTMENTS

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service. If the applicant is a man aged 18-64 or a woman aged 18-59 inclusive, unless he or she or the employer is accepted from the provisions of The Notification of Vacancies Order 1952.

### BINGLEY URBAN DISTRICT COUNCIL

#### APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

APPLICATIONS are invited for the permanent appointment of CHIEF ARCHITECTURAL ASSISTANT. Salary Grade V, commencing at £595 per annum, rising by three annual increments to £645 per annum.

Candidates should have had considerable training and experience in housing design, development and general architectural work. Preference will be given to candidates who have passed the examinations of the Royal Institute of British Architects.

The appointment will be terminable by one month's notice on either side and subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications, training and experience, and details of past and present appointments, accompanied by copies of three recent testimonials, should be forwarded, endorsed "Architectural Assistant" to the undersigned before the 23rd November, 1953.

The Council is unable to provide housing accommodation.

F. M. DUNWELL,  
Clerk of the Council.

Town Hall,  
Bingley.

[7415]

### LONDON COUNTY COUNCIL

#### APPOINTMENT OF ASSISTANT SCHOOLS ARCHITECT.

THE ASSISTANT SCHOOLS ARCHITECT, salary £1,650 x £100 - £1,950, will assist the School's Architect, who is responsible to the Architect to the Council for the organization and direction of the Schools Division dealing with the design and erection of educational buildings of all types. The position calls for experience in contemporary architectural design and modern methods of construction, and for qualities of leadership and organizing ability of a high order. Form of application from the Architect (AR/EK/ASA), County Hall, London, S.E.1. Closing date 30th November, 1953. [7422]

### EAST KILBRIDE DEVELOPMENT CORPORATION.

APPLICATIONS are invited for the appointment of ASSISTANT CHIEF ARCHITECT (PLANNING) in the architectural and planning department of the Corporation.

The main duties of the post are (1) to produce broad outline plans of all developments; (2) to supervise the preparation of detailed layout work for both residential and central areas; and (3) to supervise the collection and analysis of statistical information. The qualifications required are those of an architect planner, and recent experience in both architecture and planning is desirable.

The salary scale is £1,100 by £50 to £1,350 per annum, with placing according to experience, etc.

The appointment is subject to the Corporation's Conditions of Service and Superannuation Agreement. The selected candidate will be required to pass a medical examination. A house will be made available if required. Application forms may be obtained from the General Manager, Torrance House, East Kilbride, to whom they should be returned not later than 21st November, 1953.

Cannassing, directly or indirectly, of the members of the Corporation will constitute an absolute disqualification.

[7419]

### BOROUGH OF SAFFRON WALDEN

QUANTITY SURVEYOR required in connection with new housing schemes. Salary within A.P.T. Grades Va to V1 (£625 to £735) according to age and experience. N.J.C. conditions of service and superannuation will apply. Applications, with full particulars and copies of two recent testimonials, should reach the undersigned on or before 24th November, 1953.

(signed) H. C. STACEY,  
Town Clerk.  
[7442]

# ANNOUNCEMENTS

---

## • CONTRACTS • TENDERS

Close for press 1st post Monday for following Thursday Issue

## APPOINTMENTS—contd.

### HER MAJESTY'S COLONIAL SERVICE.

CHIEF ARCHITECT, ARCHITECTURAL DEPARTMENT (DEVELOPMENT AND WELFARE) MAURITIUS (CDE 112/52/01).

TO be in charge of the Architectural branch of the Development and Welfare Organisation and responsible for all architectural work undertaken by the Government.

Appointment is on contract for 3 years at a fixed salary of £1,485 per annum. Gratuity at the rate of £37 10s for each 3 months' service payable on satisfactory completion of contract. Cost of living allowance of 9 per cent of basic salary at present agreed. Leave at the rate of 4 days for each completed month of resident service. Free passages for officer, wife and up to 3 children.

Candidates must be A.R.I.B.A. preferably with experience in Town Planning and in the Architectural department of a public authority.

For application forms and further particulars write to the Director of Recruitment (Colonial Service), Colonial Office, Sanctuary Buildings, Great Smith Street, London, S.W.1, quoting reference (CDE 112/52/01). Closing date for receipt of initial enquiries 4th Dec., 1953. [7420]

### EXMOUTH URBAN DISTRICT COUNCIL.

#### APPOINTMENT OF ARCHITECTURAL ASSISTANT.

APPLICATIONS are invited for the appointment of ARCHITECTURAL ASSISTANT (Capital Works) in the Department of the Engineer and Surveyor at a salary in accordance with Grade V of the A.P.T. Division of the National Scales (£595-£645).

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the National Scheme of Conditions of Service, to the satisfactory passing of a medical examination, and to one month's notice on either side.

The Council will provide housing accommodation if required.

Applications giving details of age, qualifications and experience, accompanied by copies of three testimonials, must be received by the undersigned not later than Saturday, 21st November.

R. S. RAINFORD,  
Clerk and Solicitor,  
Council Offices,  
Exmouth.

[7421]

### MINISTRY OF WORKS.

VACANCIES exist in London in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS with recognised training and fair experience. Employment will be on a wide variety of Public Buildings including Atomic Energy and other Research Establishments, Telephone Exchanges and Housing.

Salary: Up to £628 per annum. Starting pay according to age, qualifications and experience.

Although not established posts, many have long-term possibilities and competitions are held periodically to fill established vacancies. Reasonable prospects of promotion to Leading and Senior Architectural Assistant.

State age, nationality, full details of training and experience to Chief Architect, W.G.10/C.A.3(H), Ministry of Works, Abell House, John Islip Street, London, S.W.1. [7371]

### CITY OF BIRMINGHAM EDUCATION COMMITTEE

#### APPOINTMENT OF STAFF TO ARCHITECT'S BRANCH

Applications are invited for the following appointments in the Architect's Branch of the Birmingham Education Department (Architect to the Committee: Mr. J. R. Sheridan-Shedden, A.R.I.B.A.).

ASSISTANT CLERKS OF WORKS (Temporary).

Salary: Miscellaneous Grade IV, (£440-£495).

Applicants should have had a thorough technical training and experience in building construction materials.

Application forms, which may be obtained (s.a.e.) from the undersigned, must be returned not later than 23rd November.

E. L. Russell, Chief Education Officer,  
Education Office,  
Margaret Street,  
Birmingham, 3.  
[7423]

## APPOINTMENTS—contd.

### NIGERIAN COLLEGE OF ARTS, SCIENCE AND TECHNOLOGY

APPLICATIONS are invited for the post of A LECTURER IN BUILDING. Duties will consist of instruction in Theory of Structures, Building Research and Building Construction to students of Architecture and in Building to Civil Engineering students.

The College is to be developed along the general lines of a U.K. Technical College for work of post-School Certificate standard and has branches at Zaria, Ibadan and Enugu.

Applicants should preferably have had previous Technical College experience and must possess either a professional qualification in Architecture, Structural and Civil Engineering, or Quantity Surveying or a Technical College Diploma in Building.

Post is pensionable but appointment on contract or secondment possible in certain circumstances. Salary scale £750-£1,560 p.a., including overseas allowance. Point of entry into scale determined by experience. House provided at rent £57-£129 p.a., depending on basic salary. Free first class passages once each way for each tour of service for person appointed and wife; either a passage allowance or a maintenance allowance for up to two children under 18. Income tax rates much lower than in U.K. Leave on full salary at rate of 7 days for each completed month of resident service. Tours of service likely to be 10-18 months.

Write for further information to the Secretary, Advisory Committee on Colonial Colleges, 1, Gordon Square, London, W.C.1. Closing date for applications (6 copies) 30th November, 1953. [7430]

### COUNTY BOROUGH OF WEST HAM

#### BOROUGH ARCHITECT & PLANNING OFFICERS' DEPARTMENT

Applications are invited for:

(a) ARCHITECTURAL ASSISTANT. Salary according to experience within the range £465-£570 plus London Weighting.

(b) GENERAL ASSISTANTS TECHNICAL  
(3). With two years' experience in an architect's office. Salary according to age within the range £160-450 plus London Weighting.

Application forms returnable by Monday, 30th November, 1953, from Thomas E. North, O.B.E., F.R.I.B.A., Dist. T.F., 70, West Ham Lane, Stratford, E.15. [7431]

### BOROUGH OF OLD BURY

#### BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT

APPLICATIONS are invited for the following appointments in the Architects' Section of the Borough Surveyor's Department:-

(a) SENIOR QUANTITY SURVEYOR, Grade A.P.T. VII (£710/£25/£785).

(b) ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. V (£595/£15/£15/£20/£645).

Salary will be paid within the above Grades in accordance with the experience and qualifications of the successful candidates.

The Corporation's building programme comprises mixed development of houses, maisonettes and flats, shopping centres, development of Central Clearance Areas, multi-storey flats and general building works.

Candidates for appointment (a) should be Chartered Quantity Surveyors, possess a thorough knowledge of building contract procedure and have administrative ability; be experienced in preparation of estimates, preparing specifications and bills of quantities; valuation for interim certificates and settling final accounts for all types of local authority building contracts.

Appointment (b) should preferably be qualified Quantity Surveyors and have had considerable practical experience in the preparation of bills of quantities.

The appointment will be superannuable and subject (a) to the Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services and (b) to the selected candidate passing a medical examination.

Applications, giving particulars of age, qualifications and experience, together with the names of two referees, should be delivered to the undersigned not later than Monday, 30th November, 1953.

KENNETH PEARCE,  
Town Clerk.

Municipal Buildings,  
OLDBURY.  
6th November, 1953.

[7440]

**APPOINTMENTS—contd.****GOLD COAST, TEMA DEVELOPMENT CORPORATION.**

VACANCIES exist in the Senior Staff of the Corporation, which has been established by Ordinance for the purpose of planning and developing the New Town of Tema.

- (1) Appointments will normally be on contract for two tours of 18 to 24 months each in the first instance, or for five years in the case of indigenous staff.
- (2) Overseas officers will be entitled to seven days leave (exclusive of travelling time) on full pay for each completed month of residential service; African Senior Officers will receive five days leave on full pay for each completed month of service.
- (3) Free return passages by sea (first-class) or air will be provided for overseas officers each tour, and passages for a wife and up to three children under the age of 13 years will also be provided. Free rail travel to and from the port of embarkation when travelling to or from the Gold Coast is also allowed.
- (4) It is intended to establish a Provident Fund, to which each officer may expect to have to contribute 10 per cent of his salary, the Corporation contributing at least an equal amount. Pending the establishment of the Fund, gratuities will be paid as follows for each completed three months of satisfactory service:

Officers on salaries of £700-£999: £25.  
Officers on salaries of £1,000 and above: £37 10s.

- (5) Quarters (partially furnished) are provided for overseas officers in Accra, at the following rentals:
- Salaries up to £1,350—£60 per annum.
- Salaries £1,351 to £1,850—£75 per annum.
- Salaries £1,851 to £2,400—£90 per annum.
- Salaries £2,401 to £2,650—£120 per annum.
- Over £2,650—£150 per annum.
- When the Corporation moves to Tema, officers will be expected to make their own arrangements.
- (6) Free medical attention will be given to officers and their families.
- (7) Officers required to use motor cars in the course of duty will be paid a monthly maintenance allowance and mileage.
- (8) Income Tax in the old Coast is at rates considerably lower than those in the United Kingdom.

Applications are invited from suitably qualified candidates for the following vacancies:

**CHIEF ARCHITECT AND TOWN PLANNER.** (Salary—£2,500 p.a.) Candidates must be A.R.I.B.A. and A.M.T.P.I., or have equivalent qualifications and must have had considerable municipal or New Town experience.

Vacancies also exist in the following grades, viz.:—

**ASSISTANT ARCHITECTS.** (Salary—£700 x £30—£910.) Must be students of the R.I.B.A.

**ARCHITECTS.** (Salary £1,000 x £40—£1,200) must be A.R.I.B.A., or hold a degree or diploma which is accepted as equivalent to having passed Sections A and B of the Institute's examination, and have reached the age of 28 years. Membership of the Town Planning Institute would be an advantage. Opportunities will exist for promotion to the grade of **SENIOR ARCHITECT** (Salary £1,300 x £50—£1,500). In these grades Overseas Pay (£175—£350) is payable.

**CHIEF ESTATES OFFICER.** (Salary £2,300 p.a.) Candidates should be members of the Royal Institution of Chartered Surveyors or hold the degree of B.Sc. (Estate Management) and should have considerable experience in the management of large housing and industrial estates. Experience in the Estates Office of a Municipality or in New Towns would be an advantage.

Applications: Persons resident in the United Kingdom and Europe should apply to the Commissioner for the Gold Coast, Melbourne House, Aldwych, London, W.C.2, for a form of application, while other applicants should send full details of age qualifications and experience and arrange, if possible, for a testimonial from present and/or recent employers to be sent to the Commissioner.

[7436]

**CITY OF COVENTRY** require a **CHIEF PLANNING ASSISTANT** in Development Control Section, A.P.T. IX (£815—£935), A.R.I.B.A. and A.M.T.P.I. essential. Housing accommodation may be provided. Application forms, etc., from City Architect, Bull Yard, Coventry, to be returned by 5th December.

[7441]

**APPOINTMENTS—contd.****LONDON COUNTY COUNCIL.  
ARCHITECT'S DEPARTMENT**

**TEMPORARY TECHNICAL ASSISTANT** (estimator) (up to £721) required for Historic Buildings Section for preparing estimates for maintenance and improvements work. Experience of special craftsmanship and of treatment of defects in old buildings essential. Application form, returnable by 25th November, from Architect (AR/EK/HB/4), County Hall, S.E.1. (1215).

[7431]

**KENT COUNTY COUNCIL**

Applications are invited for appointment in the Buildings Department of an **ASSISTANT ARCHITECT** in A.P.T. Grade V(a) (£625-£685).

Applicants must be members of the Royal Institute of British Architects and have had experience in the preparation of sketch schemes and working drawings for modern buildings. Previous experience with a local authority is not essential.

Applications, on forms obtainable from the County Architect, Springfield, Maidstone, must be delivered to him not later than fourteen days after the appearance of this advertisement.

W. L. PLATTS,

Clerk of the County Council.

2nd November, 1953 [7438]

**MISCELLANEOUS SECTION**

**RATE**: 1/6d. per line, minimum 3/-, average line 6 words. Each paragraph charged separately.

**BOX NOS.** add 2 words plus 1/- for registration and forwarding replies which should be addressed c/o, "The Architect & Building News," Dorset House, Stamford Street, London, S.E.1.

**PRESS DAY** Monday. Remittances payable to Iliffe & Sons Ltd., Dorset House, Stamford Street, London, S.E.1.

No responsibility accepted for errors.

**ARCHITECTURAL APPOINTMENTS VACANT**

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service, etc., by a man aged 18-59 or a woman aged 18-59 inclusive, unless he or she or the employer is excepted from the provisions of The Notification of Vacancies Order 1952.

**REQUIRED** at once competent architectural assistant Intermediate standard; office experience essential; good draughtsman working drawings and details; good salary paid; West Lancashire area; private practice.—Write, with details, Box 1565.

**FIRST-CLASS** architect assistant required, age 33-40, for North Notts industrial area; general practice including factory, hotel and domestic work; knowledge of quantities advantageous; state qualifications and salary required.—Box 1714. [7427]

**QUALIFIED** Housing Architect. Full-time services required.—Apply, stating experience, age and salary, to Smiths Building Systems (Birmingham), Ltd., Smiths Road, Wednesbury.

**ARCHITECTURAL** Assistant required in Preston (Lanes) office, capable of preparing working drawings and details from sketch plans and a good draughtsman, up to Inter. R.I.B.A. standard or beyond.—Please send details of qualifications, age and experience, when free, and salary required to Box 1742.

**SITUATIONS VACANT**

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service, etc., by a man aged 18-59 or a woman aged 18-59 inclusive, unless he or she or the employer is excepted from the provisions of The Notification of Vacancies Order 1952.

**REPRESENTATIVE** with well-established connections with architects wanted by manufacturer of approved sanitary installation.—Please apply Box 1715.

[7428]

**SITUATIONS VACANT—contd.**

**QUANTITY SURVEYOR'S ASSISTANT** required by British Railways, Eastern Region. Preference given to applicants with experience in abstracting and billing and assisting with site measurements. Salary £260 to £573/15 per annum according to age and experience. Free residential railway travel within specified limits. Certain free and reduced rate rail travel after qualifying period of service. Permanency to suitable applicant after probationary period. Five-day week.—Write giving full particulars of qualifications and experience to the Civil Engineer, Eastern Region, British Railways, King's Cross Station, London, N.1.

[7429]

**JUNIOR** taker off and site measuring surveyor required.—Apply, stating age, experience and salary required to Lay & Partners, 8, Clarges Street, London, W.1.

[7430]

**SITUATIONS WANTED**

**SORTHAND** Typist, experience with Architectural and electrical organizations, 23 years of age, seeks position in London area.—Box 1740.

[7432]

**SERVICES OFFERED**

**PRESENTATION** drawings, perspectives executed expertly in any medium; moderate fees.—Box 1741.

[7433]

"DON" Architectural model makers, qualified operator offer quick, reliable and personal services; photographs available.—Please write Erith 3843.

[7444]

**FOR SALE**

**ALL** Mouldings, Plain and Embossed, and Embossed ornaments. Numerous designs.—Darey's Moulding Mills, Ltd., 60, Pownall Rd., Dalston, E.8.

[7086]

**ROADWAY** quality sleepers, in large quantities.—Frank W. Toogood, Ltd., Ashton Vale, Bristol, 3. Tel. 64222.

[7443]

**INSURANCE**

**SICKNESS** Insurance effected. Please write for Proposal Form to E. J. SAXBY, Incorporated Insurance Broker, 37a, Carfax, Horsham, Sussex. Tel. 990.

[0134]

**WANTED**

**WANTED**, "A. and B.N." detail sheets 1 to 50 inclusive, urgently.—Price to Box 1713.

[7425]

**WANTED**, 1yd shovel equipment for Lima and Byers excavator; Insley K12 1yd excavator with any equipment; Fairlead for Osgood 1yd excavator; Mole & Bray, Ltd., Stourport-on-Severn. Phone 361.

[7435]

**NISSEN HUTS, ETC.**

**RECONDITIONED** ex-Army huts and manufactured buildings, timber, asbestos, Nissen type, hall type, etc., all sizes and prices.—Write, call or telephone Universal Supplies (Belvedere), Ltd., Dept. 32, Crabtree Manorway, Belvedere, Kent. Tel. Erith 2948.

[0120]

**OFFICE EQUIPMENT**

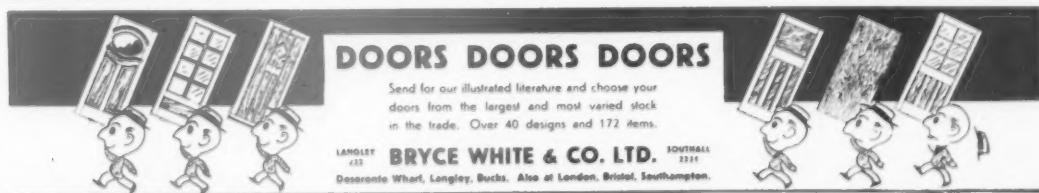
**TWENTY-FOUR** 5ft x 2ft 9in steel lino-topped desks, 42in high with 10in top shelf, for disposal, with twenty-three tubular steel chairs and two 2ft 6in x 2ft 9in steel desks.—Reply to Box 1027.

[0135]

**DEMOLITION****DEMOLITION AND CLEARANCE.**

"WATCH IT COME DOWN"  
By SYD BISHOP & SONS,  
282, BARING RD., LEE, S.E.12. TEL. LEE GREEN 7755.

**OLD MANSIONS BOUGHT FOR SALVAGE.** [0124]



**DOHM VERMICULITE**

AIDS NATIONAL ECONOMY BY  
REDUCING FUEL CONSUMPTION  
ROOFING SCREEDS • FLOORINGS  
LOOSE FILLS  
WALLS AND CEILING PLASTER  
THE LIGHTWEIGHT INSULATION  
WITH A MISSION IN EVERY BUILDING

**DOHM LTD.** 167 VICTORIA ST., S.W.1  
VIC 1414/5/6

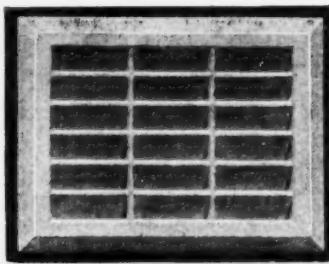
## UNBREAKABLE PLASTER VENTILATORS, LOUVRES AND GRILLES

*Full particulars and sample*  
on request from

**COZENS  
VENTILATORS  
LTD.**

2 KINGSWOOD ROAD,  
PENGE, S.E.20.

Telephone : Sydenham 8575



MODEL J2

ACTUAL MANUFACTURERS OF

**PLYWOOD and  
VENEERED PLYWOOD**  
SPECIALITY — PANELLING  
TO  
ARCHITECTS' SPECIFICATIONS

**RELIABLE PLYWOOD COMPANY LIMITED**  
PROGRESS WORKS, WARBURTON STREET, LONDON, E.8  
Telephone : Clissold 8135/6  
Telegrams : Relaply-Hack, London

**R.I.B.A.** INTER, FINAL AND  
SPECIAL FINAL

Pestal Courses in all or any subjects including  
Design and Professional Practice. Consultations  
arranged.

**THE ELLIS SCHOOL**  
Principal : A. B. Waters, M.B.E., G.M., F.R.I.B.A.  
1036, OLD BRONXTON ROAD, LONDON, S.W.7.  
Phone : KEN. 4477/8/9 and at Worcester

**A.B.S. HOUSE PURCHASE LOANS**

ADVANCES of approximately 75% of Valuation.  
INTEREST 4½% per annum.

**PERIOD OF REPAYMENT.** Up to 25 years.

At the end of the repayment term or on previous death the  
house will be freed to the legal personal representatives and a  
cash sum would also be paid to them, the amount depending  
upon the period the mortgage was in force.

*Particulars from :*  
The Secretary, A.B.S. Insurance Department, 66 Portland  
Place, London, W.1. Tel. : LANingham 20721

## POST-WAR REBUILDING . . .

### PORTLAND STONE MONKS PARK STONE

### THE BATH & PORTLAND STONE FIRMS LTD.

Head Office :  
BATH  
Tel. : 3248-9

PORLTAND  
Tel. : 3113

LONDON OFFICE :  
Grosvenor Gardens House, S.W.1  
Tel. : VICToria 9182-3

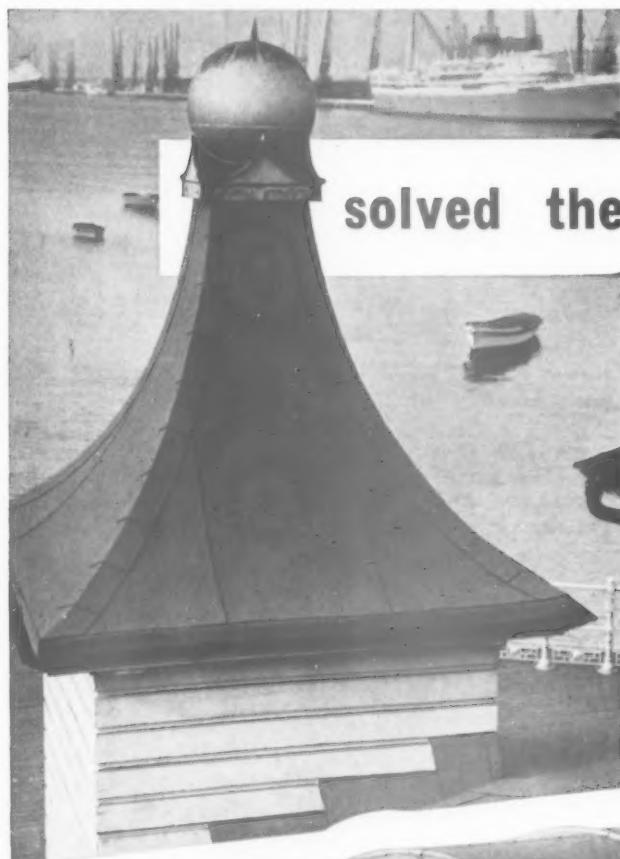
BUILDING TRADES EXHIBITION, OLYMPIA, Nov. 18th—Dec. 2nd, 1953  
STAND NO. 42

## INDEX TO ADVERTISERS

Official Notices, Tenders, Auction, Legal and Miscellaneous Appointments on pages 48 & 49

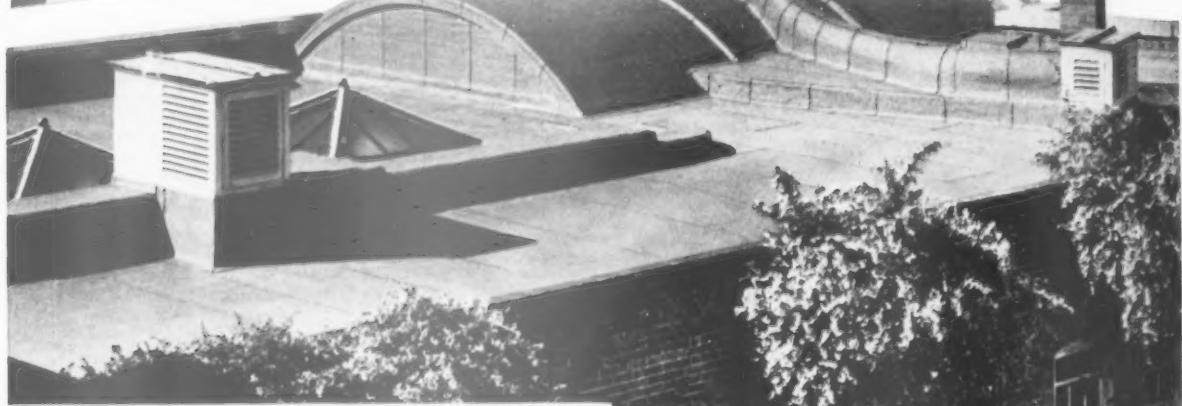
Anderson, D. & Son, Ltd.	37	Cementation Co., Ltd.	26	Gibson, Arthur L., & Co., Ltd.	3	Reliable Plywood Co., Ltd.	50
Architects' Benevolent Society	50	Cement Marketing Co., Ltd.	21	Gimson & Co. (Leicester), Ltd.	36	Ringmer Building Works, Ltd.	37
Ascot Gas Water Heaters, Ltd.	30	The	21	Gray, J. W., & Sons, Ltd.	36	Robertson, Thain, Ltd.	27
Bath & Portland Stone Firms, Ltd.	50	Clarke Ellard Engineering Co., Ltd.	18	Hall, J. & E., Ltd.	14	Rubber Latex, Ltd.	45
Batley, Ernest, Ltd.	40	Clement Bros., Haslemere, Ltd.	35	Hall & Co., Ltd.	24	Rubberoid Co., Ltd., The	Inside Back Cover
Binn, A. J., Ltd.	42	Coverit (Asphalters), Ltd.	35	Hammill Brick Co., Ltd., The	45	Shutter Contractors, Ltd.	46
Blackwells & National Roofings, Ltd.	39	Cozens Ventilators, Ltd.	32	Henley's, W. T. Telegraph	45	Smith's Fireproof Floors, Ltd.	43
Briggs, William, & Sons, Ltd.	32	Critall Manufacturing Co., Ltd., The	33	Co., Ltd., Outside Back Cover	45	Smith, Samuel, & Sons, Ltd.	44
British Ebomite Co., Ltd., The	46	Curfew Doors & Shutters, Ltd.	40	Heywood, W. H., & Co., Ltd.	15	Stainless Steel Sink Co., Ltd., The	45
British Electricity	38	Dalton, Ballard & Co., Ltd.	40	Hill Aldam, E., & Co., Ltd.	25	Stelcon (Industrial Floors), Ltd.	7
British Hemmeral, Ltd.	49	Demolition & Construction Co., Ltd., The	8	Hotchkiss, Ltd.	35	Sundeala Board Co., Ltd.	12
British Iron & Steel Federation	29	Docker Bros.	31	King's Langley Engineering Co., Ltd.	22	Super Phalt, Ltd.	24
British Plaster Board, Ltd.	29	Dohm, Ltd.	50	Land Gear Co., Ltd.	35	Supreme Fencing, Ltd.	37
British Rubber Development Board, The	16	Durasteel, Ltd.	44	Light Steelwork (1925), Ltd.	37	Thorn, J., & Sons, Ltd.	37
Brookhurst Switchgear, Ltd.	44	Ellis, John, & Sons, Ltd.	13	Macandrews & Forbes, Ltd.	16	True Flue, Ltd.	35
Building Trades Exhibition, Ltd., The	2	Engert & Rolfe, Ltd.	36	Margolis, M., Ltd.	36	Tyrol Sales, Ltd.	38
Bryce White & Co., Ltd.	49	Eswian, Ltd.	22	McCarthy, M., & Sons, Ltd.	36	Vaughan Lift Engineering, Ltd.	42
Cafferata & Co., Ltd.	39	Ewing, Duncan, & Co., Ltd.	41	Mealing Bros., Ltd.	35	Veitch Company (The)	37
Camack Browne, Ltd.	42	Fabricrete Products, Ltd.	20	Metal Sections, Ltd.	46	Walker, Crowseller & Co., Ltd.	5
Candy Co., Ltd.	18	Finlock Gutters, Ltd.	34	Morris, Herbert, Ltd.	35	Wardle Engineering Co., Ltd., The	20
Cannon, W. G., & Sons, Ltd.	4	Floor Renovations, Ltd.	35	"Motor Transport"	47	Williams, John, & Sons (Cardiff), Ltd.	11
Celotex, Ltd.	19	Freeman, J., Sons & Co., Ltd.	9	Newman, William, & Sons, Ltd.	35	Williams & Williams, Ltd.	1, 23
Celotex, Ltd.	10	General Electric Co., Ltd.	41	Novo Industrial Finishes	35	Wood Bros. (Furniture), Ltd.	47
				Packard & Ord, Ltd.	38	Wood, Edward, & Co., Ltd.	

Printed in Great Britain for the publishers, ILIFFE AND SONS LTD., Dorset House, Stamford Street, London, S.E.1, by CORNWALL PRESS LTD., Paris Garden, Stamford Street, London, S.E.1.



# RUBEROID

## solved these roofing problems



R.112

### The Ruberoid Contract Department



places its wide and long experience with all types of roofing problems freely at the disposal of architects; consultations at the design stage can, and often do, result in structural economy. The service operates from the following centres, conveniently situated throughout the British Isles:

BIRMINGHAM · MANCHESTER · NEWCASTLE-ON-TYNE  
LEEDS · NOTTINGHAM · EDINBURGH · ABERDEEN  
GLASGOW · BELFAST · BRISTOL · EXETER · DUBLIN · CORK

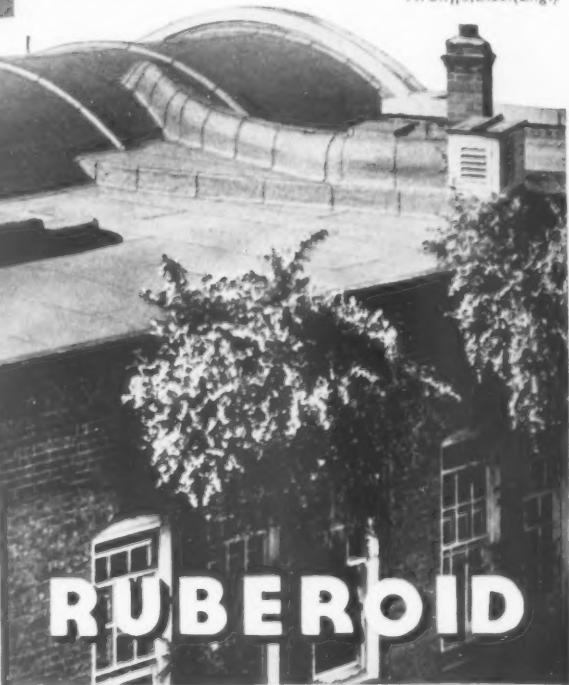
THE RUBEROID COMPANY LIMITED, 93, COMMONWEALTH HOUSE, NEW OXFORD ST., LONDON, W.C.I

Time after time, Ruberoid has provided the simple and economical answer to a roofing problem that would otherwise have called for a complicated and expensive treatment. Ruberoid is the answer whether the problem lies in the design of the roof as a whole or in the existence of awkward or unusual details dictated by the function or situation of the building.

Practically all types of roof and roofing detail are covered in the Ruberoid Standard Specification Catalogue (a copy of which will be sent free on request). Any queries outside the scope of this publication will be given the close attention of the Ruberoid Technical Department.

Royal Pier Pavilion, Southampton.  
Engineer, Southampton Harbour Board : J. P. M. Pannell, M.B.E., M.I.C.E., M.I.Mech.E.

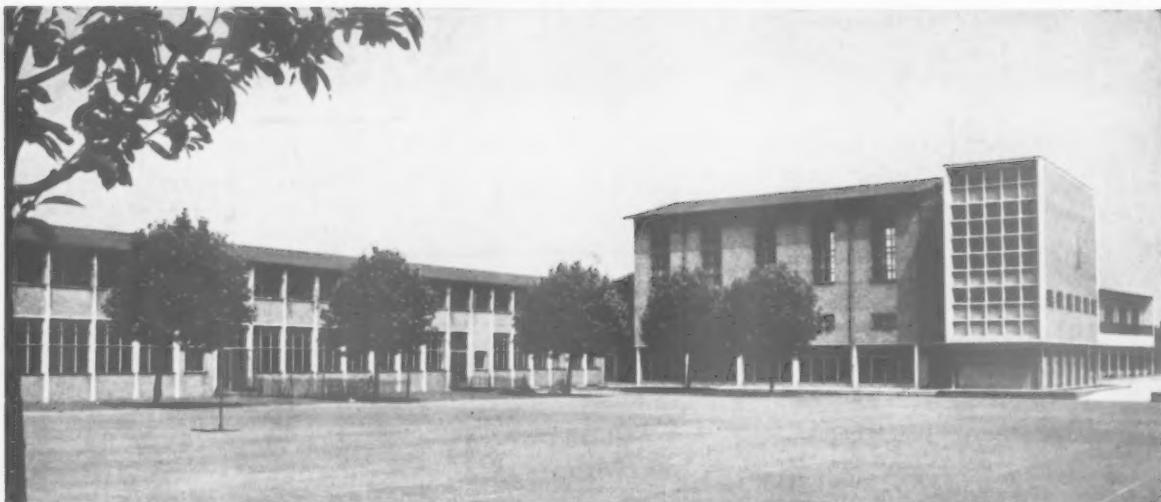
Municipal Offices,  
Bromley, Kent.  
Borough Engineer :  
H. Cliffe, B.Sc.(Eng.)



# ROOFING

See our Stand No. 3089 Row Q  
at the Building Trades Exhibition

November 12, 1953



CARDINAL GRIFFIN SCHOOL, POPLAR. Architect : David Stokes, F.R.I.B.A.

# In the modern manner



This school in London's east-end and the new building in Fitzroy Square typify the modern idiom in architecture.



BY APPOINTMENT  
ELECTRIC CABLE  
MANUFACTURERS  
TO THE KING & QUEEN OF ENGLAND

Wired throughout with

**HENLEY  
CABLES**

Electrical Contractors :  
**TROUGHTON & YOUNG LTD.**  
**KNIGHTSBRIDGE, S.W.3.**

Y.M.C.A. INDIAN STUDENTS' HOSTEL  
Fitzroy Square, W.I.  
Architect : Ralph Tubbs, O.B.E., F.R.I.B.A.

W. T. HENLEY'S TELEGRAPH WORKS CO. LTD., 51-53 HATTON GARDEN, LONDON, E.C.1